Ai, Ml and Data Science



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The Artifical Intelligence (AI) Revolution

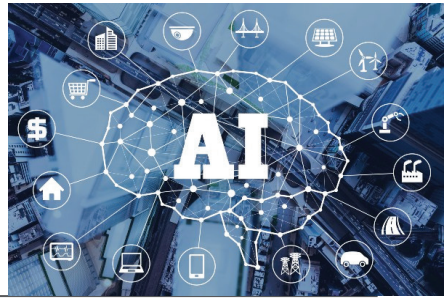


A decade ago, the best AI systems in the world struggled with language comprehension and math problems and struggled to classify objects in images at a human level. Today, AI systems routinely exceed human performance on standard benchmarks. New state-of-the-art systems like GPT-4, Gemini, and Claude 3 can generate fluent text in dozens of languages, process audio, play complicated games, and even explain memes. With every passing day, AI is becoming more and more indispensable, not just in our personal and professional lives but also at the social, economic, and political levels, and reshaping the world.

> *AI will be the most transformative technology since electricity.*
> *– Eric Schmidt, former CEO Google*

Given its groundbreaking potential, AI is also upending international markets. The global AI market has made an estimated USD 214 billion in revenue in 2024.[1] The volume of global AI deals reached 1,245 in the third quarter of 2024, a level not seen since 2022 reflecting renewed investor confidence in this domain.[2] With a 24% year-over-year growth, global AI deals far outpaced the -10% quarter-over-quarter declines which have hampered the broader investment market this year. The size of the average AI deal also increased 28% in 2024, climbing from USD 18.4 million in 2023 to USD 23.5 million. In terms of geographical distribution of funded AI startups between 2013 to 2023, the US has taken the lead followed by China and the UK.

AI infrastructure, research, and governance led the list of investments, particularly startups that are building AI applications.[3] OpenAI, the pioneering company behind ChatGPT



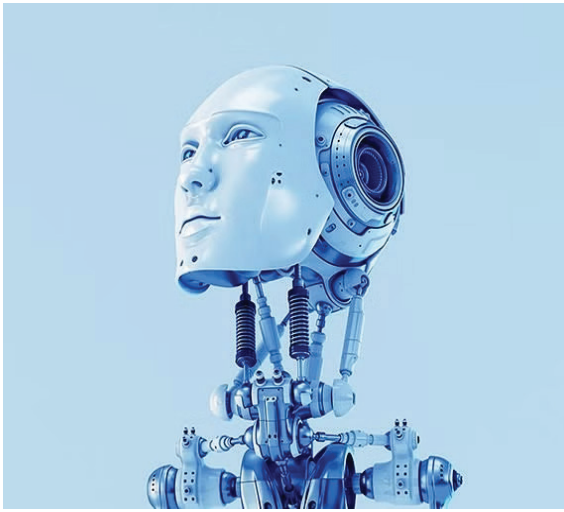
[1] Haan, K. (2024). 22 Top AI Statistics And Trends In 2024. Forbes Advisor. Retrieved from https://www.forbes.com/advisor/business/ai-statistics

[2] Columbus, L. (2024). The show's not over: 2024 sees big boost to AI investment. VentureBeat. Retrieved from https://venturebeat.com/ai/ai-investment-accelerates-global-deal-counts-reach-2-year-high

[3] Lu, M. (2024). Mapped: The Number of AI Startups By Country. Visual Capitalist. Retrieved from https://www.visualcapitalist.com/-mapped-the-number-of-ai-startups-by-country

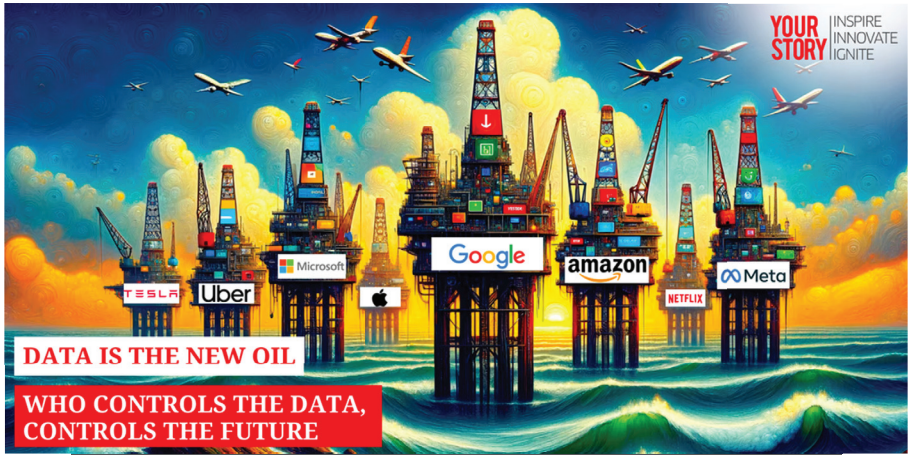
recently received a USD 157 billion valuation, making it the third-most valuable VC-backed company in the world.[4] The second biggest investment, approximately USD 8 billion in 2023, is in natural language processing (NLP), which is a type of AI that enables computers to understand and interpret human language. This technology has numerous applications for businesses, particularly in financial services, in the form of customer support chatbots and automated wealth advisors.

In terms of future development, the sky appears to be the limit: the global AI market is estimated to grow at 36.6% up till the end of the decade. Global AI revenues are projected to reach a staggering USD 1,339 billion by 2030, at which point they will make significant contributions to the GDPs of many countries – for instance, AI is estimated to increase US GDP by up to 21%. The



healthcare and automotive industries are expected to witness the most impact. 10% of cars will be driverless by 2030 and the market for self-driving cars is forecast to grow from USD 20.3 million in 2021 to USD 62.4 million.

AI: The Good, the Bad and the Ugly?



[4] Bradbury, R. (2024). OpenAI valuation surpasses every VC-backed IPO. PitchBook. Retrieved from https://pitchbook.com/news/articles/openai-valuation-bigger-vc-ipo

The Good

The phrase "data is the new oil" is commonly attributed to Clive Humby, a British mathematician and data science entrepreneur.[5] He first used the expression in 2006 to emphasize the value of data in the digital age, suggesting that, like oil, data can be refined and processed to create valuable insights and drive economic growth.

> *I've come to the conclusion that the kind of intelligence we're developing is very different from the intelligence we have. So it's as if you had 10,000 people and whenever one person learned something, everybody automatically knew it. And that's how these chatbots can know so much more than any one person.*
>
> ***– Geoffrey Hinton, Researcher and g=Godfather of AI***

AI and the future of work

While several people argue that AI will replace humans and there will be a paucity of jobs, accoridng to the World Economic Forum, AI actually stands to generate an immense amount of jobs in the future.[8] Whereas AI and automation are expected to displace 85 million jobs by 2025, 97 million new jobs are expected to be created. There is an urgent need to upskill and reskill the workforce to capitalize on these new opportunities. This is a good omen, especially for developing countries with large populations, and points to a pathway to future prosperity.

The Bad

With AI applications increasingly venturing into the public space, concerns are mounting regarding privacy risks, potential job displacements, and the growing carbon footprint of these new technologies.

The Ugly



The godfather of AI - and recent Nobel Prize winner – Geoffrey Hinton quit Google due to his concern about the "existential risk" of machines becoming more intelligent than humans.[6] More than 27,000 people, including leading tech executives and researchers have signed an open letter calling for a pause on future AI development while we figure out how to mitigate its potential risks.[7]

AI in 2024: Advances, Trends, and Impact

Stanford University recently published its AI Index Report for 2024 with a comprehensive view of the current AI landscape, highlighting advancements, challenges, and industry dynamics.[9] The report also emphasizes technical progress, responsible AI practices, economic impacts, and public sentiment on AI's role in society.



[5] *Talagala, N. (2022). Data as The New Oil Is Not Enough: Four Principles For Avoiding Data Fires. Forbes. Retrieved from https://www.forbes.com/sites/nishatalagala/2022/03/02/data-as-the-new-oil-is-not-enough-four-principles-for-avoiding-data-fires*

[6] *Taylor, J., & Hern, A. (2023). 'Godfather of AI' Geoffrey Hinton quits Google and warns over dangers of misinformation. the Guardian. Retrieved from https://www.theguardian.com/technology/2023/may/02/geoffrey-hinton-godfather-of-ai-quits-google-warns-dangers-of-machine-learning*

[7] *Pause Giant AI Experiments: An Open Letter - Future of Life Institute. (2024, July 01). Retrieved from https://futureoflife.org/open-letter/pause-giant-ai-experiments*

[8] *Gregg, I. (. (2024). The Future Of Work: Embracing AI's Job Creation Potential. Forbes. Retrieved from https://www.forbes.com/councils/forbestechcouncil/2024/03/12/the-future-of-work-embracing-ais-job-creation-potential*

[9] *Perrault, R., & Clark, J. (2024). Artificial Intelligence Index Report 2024. Stanford University. https://aiindex.stanford.edu/report/*

Technical Advancements

- AI capabilities have rapidly grown, with models like GPT-4 and Gemini Ultra achieving human-level performance on complex benchmarks such as MMLU. New multimodal models also integrate text, image, and audio processing.
- Training costs have surged, with models like GPT-4 and Gemini Ultra costing up to USD 78 million and USD 191 million, respectively, underscoring the increasing investment required for cutting-edge AI development.

Research & Industry Contributions

- The United States leads in model development, with 61 notable models from the U.S., compared to 21 from the European Union and 15 from China. Industry remains the dominant contributor to frontier AI, outpacing academia, which provided only 15 of the notable models in 2023.
- Open-source models have increased, comprising 65.7% of new foundation models, as the community pushes for more accessible AI development.

Economic and Workforce Impacts

- Despite a second consecutive year of overall decline in AI investment, generative AI funding surged, reaching USD 25.2 billion—nearly eight times the previous year. This reflects the market's focus on applications like image and text generation.
- AI's role in productivity is evident: studies show it enhances output quality and bridges skill gaps between workers of varying expertise levels.

Policy and Governance

- The U.S. saw a sharp increase in AI legislation, with 25 AI-related regulations passed in 2023. The European Union finalized the AI Act, emphasizing global moves toward structured AI governance. Concerns about election interference and privacy breaches are high on regulatory agendas.

Public Perception

- Public sentiment towards AI is mixed: 52% of respondents express nervousness about AI's influence on daily life. Awareness and usage of tools like ChatGPT have increased globally, but anxiety persists about AI's potential to disrupt employment and privacy.

Recommendations and Insights

The report calls for standardized metrics in responsible AI, urging companies to adopt uniform evaluation benchmarks to assess risks and limitations more consistently. For the AI workforce, it highlights a need for a balanced academic-industry talent flow, as AI PhD graduates increasingly move to industry roles, leaving academia with a shortage of skilled researchers. To support global AI literacy, the report suggests expanding educational programs and regulating generative AI models, addressing their societal and ethical implications.

The 2024 AI Index Report captures a field at a pivotal moment, where growth in AI power and capability must be met with responsible governance and public awareness to fully harness AI's potential while mitigating risks.

AI in Pakistan

The AI boom offers exciting opportunities for Pakistan. With over 1.5 million freelancers, Pakistan features among the world's top five countries in this space. IT and IT-enabled services contribute over USD 3.2 billion to the country's export earnings.[10] As per one estimate, the Pakistan AI market stands at USD 712 million and is forecast to grow at a CAGR of 28.66%.[11] Pakistani IT companies and freelancers are ideally placed to offer AI services.[12] Getting started in this space does not require costly investment and AI training resources are freely available on the internet. Even individuals who are not technically very qualified can contribute through essential services like data annotation, labelling, and quality testing, which are essential components of the overall AI development cycle. As per Upwork, the largest freelance platform, AI is amongst the top 10 highest paid and in-demand skills. The average hourly rate of AI freelancers ranges from USD 35 to USD 60.[13]

AI also stands to contribute to resolving indigenous problems, particularly in improving the efficiency and productivity of businesses, local industries, and government. The critical importance of AI is fast being recognized, and several universities in the country including FAST, COMSATS, SZABIST and GIKI now offer dedicated bachelors programs in AI. However, substantial work is still needed: the State of Artificial Intelligence (AI) Report ranked Pakistan 117 out of 172 countries in terms of AI readiness.[14]

To capitalize on the opportunities of this new paradigm, the Government of Pakistan is undertaking an ambitious three pronged approach:

- **Legislation:** in recent years, the Government has undertaken a series of policy actions and stake-holder consultations which are expected to culminate shortly in a national AI policy and roadmap document.
- **Research and development:** the Government has funded a National Center of Artificial Intelligence, comprising a network of research labs across Pakistan's leading universities. The goal of this effort is to drive cutting edge research in this domain, develop new products and solutions, contribute to digital exports, and raise awareness about AI.
- **Trainings and Bootcamps:** the government has funded a series of training programs in cutting edge technologies, including AI, which are aimed at upskilling and empowering Pakistan youth to engage in the global freelance market.



[10] *Hayat, A. (2024). Freelancing providing digital lifeline for Pakistan's economy. Express Tribune. Retrieved from https://tribune.com.pk/story/2492783/freelancing-providing-digital-lifeline-for-pakistans-economy*
[11] *Artificial Intelligence - Pakistan | Market Forecast. (2024, March). Retrieved from https://www.statista.com/outlook/tmo/artificial-intelligence/pakistan#market-size*
[12] *Hussain, A. (2024). The Economic Promise of AI for Pakistan - Atif Hussain - Medium. Medium. Retrieved from https://medium.com/@atif-hussain/the-economic-promise-of-ai-for-pakistan-d77ffedec4f8*
[13] *Artificial Intelligence Engineers on Upwork cost $35–$60/hr. (2024, October 30). Retrieved from https://www.upwork.com/hire/artificial-intelligence-engineers/cost*
[14] *Farrukh, A. (2024). AI governance in financial institutions and Pakistan's conservative approach. Brecorder. Retrieved from https://www.brecorder.com/news/40310874*

Towards a National AI Policy

Several countries are introducing legislation, roadmaps, and policies related to AI, from setting up a conducive ecosystem for these technologies to regulating their use. Most G20 members have unveiled comprehensive national strategies and ambitious roadmaps specifically pertaining to AI.[15]

A National AI Policy draft was first circulated in 2023 to solicit feedback from stakeholders.[16] This policy set out the aim to transform Pakistan into a knowledge-based economy and to create a conducive ecosystem for responsible adoption of AI. Key targets advocated in the policy include widespread public awareness for AI, developing skilled human capital, upskilling the existing workforce, integrating AI in education, establishing a National AI Fund, creating Centers of Excellence in AI, and transforming the public sector through AI, etc.

The policy is structured around four foundational pillars:

1. **Enabling AI through Awareness and Readiness:** This pillar emphasizes elevating public understanding of AI and enhancing the skill set of the workforce. The objective is to achieve 90% public awareness among internet-accessible citizens by 2026 and to train one million IT graduates in AI and related technologies by 2027. Additionally, the policy aims to increase AI-related scholarships by 30% annually, fostering a robust talent pool.
2. **AI Market Enablement:** To stimulate AI-driven projects, the establishment of the National AI Fund (NAIF) is proposed. This fund will allocate at least 30% of the Research & Development Fund towards AI initiatives, providing financial support for research and development. Complementing this, Centers of Excellence in AI and Allied Technologies (CoE-AI) are to be developed nationwide by 2026, serving as hubs for high-impact skill development and applied research.
3. **Building a Progressive and Trusted Environment:** Recognizing the importance of ethical AI deployment, the policy advocates for the creation of an AI Regulatory Directorate under the National Commission for Personal Data Protection. This body will oversee the responsible use of AI, ensuring data privacy and addressing ethical considerations. An agile regulatory ecosystem, including a sandbox for AI-led initiatives, is slated for establishment in 2025 to facilitate innovation while maintaining oversight.
4. **Transformation and Evolution:** The policy envisions the integration of AI across various sectors, including healthcare, education, agriculture, and governance. By 2024, a National/Provincial Data Repository is to be established, upgrading existing data centers to support AI applications. This transformation aims to enhance public service

[15] *A Roadmap for AI Governance: Lessons from G20 National Strategies. (2024, October 30). Observer Research Foundation. Retrieved from https://www.orfonline.org/research/a-roadmap-for-ai-governance-lessons-from-g20-national-strategies*
[16] *National AI Policy Consultation Draft V1. (2024, October 30). Ministry of IT&T. Retrieved from https://www.moitt.gov.pk/SiteImage/Misc/files/National%20AI%20Policy%20Consultation%20Draft%20V1.pdf*

delivery, promote precision agriculture, and improve educational outcomes through AI-driven solutions.

To ensure effective implementation, a governance structure comprising a Steering Committee, Working Groups, and a Policy Implementation Cell has been proposed. This framework will oversee progress, facilitate stakeholder collaboration, and conduct regular reviews to adapt to emerging challenges and technological advancements.



R&D: National Center of Artificial Intelligence

The National Center of Artificial Intelligence (NCAI) in Pakistan is a national initiative that aims to position Pakistan as a leader in AI research and innovation.[17] Established under the Higher Education Commission (HEC) of Pakistan, the NCAI is funded through the government's Vision 2025, which prioritizes the development of emerging technologies to support economic growth and national security.[18] The NCAI is hosted at the National University of Sciences and Technology (NUST) in Islamabad, and comprises research labs across six leading Pakistani universities, including NED, UET, Punjab University, and COMSATS. To date, NCAI has developed 221 AI products and designs, benefiting sectors such as smart cities, precision agriculture, healthcare, media monitoring, manufacturing industry, judiciary and many more.

The NCAI focuses on cutting-edge AI research, targeting specific areas including natural language processing, computer vision, and machine learning. Through its nine specialized labs, the center tackles various challenges in AI, such as automated medical diagnoses, agricultural advancements, and cybersecurity. Each lab is dedicated to a specific domain, fostering collaboration between researchers, industry, and government bodies. Examples include:

Medical Imaging and Diagnostic Lab – This lab leverages AI to support healthcare initiatives, particularly in diagnostics and early detection of diseases. A prominent project includes using machine learning algorithms to analyze chest X-rays and detect tuberculosis (TB) in early stages, which is critical in a country with high TB prevalence. The lab has also worked on projects for automatic tumor detection in MRI scans, helping to expedite diagnoses in rural and underserved areas. The lab collaborates with hospitals to deploy these AI tools in clinical settings, aiming to improve patient outcomes and support overburdened healthcare providers.

Smart City Lab – This lab develops AI-driven solutions for urban management challenges. Current projects include smart waste management systems that use AI to optimize garbage collection routes and an air quality monitoring network that provides real-time pollution data to help mitigate urban pollution.

Intelligent Transportation Lab – This lab is dedicated to improving traffic management and road safety in urban centers. One project includes developing AI-based systems for automated traffic signal control that adapts to real-time traffic conditions, which helps reduce congestion in densely populated areas like Karachi and Lahore. Additionally, the lab is working on a facial recognition-based system to improve vehicle and driver identification, aiming to enhance security and reduce traffic violations. The lab is also exploring the use of AI to predict traffic flow patterns and optimize emergency response times.

Intelligent Criminology Lab – This lab applies AI to support law enforcement and crime prevention. Projects include facial recognition systems for identifying suspects in public spaces and predictive policing models that analyze crime data to identify high-risk areas, assisting law enforcement in resource allocation.

Each year, the NCAI organizes workshops, conferences, and hackathons to engage students and researchers nationwide. The center also collaborates internationally, which has facilitated research exchanges and partnerships with universities in the United States, China, and Europe. Additionally, the NCAI's research outputs include a substantial amount of peer-reviewed publications and several patents. The NACI has also contributed to university curriculums on AI programs. The NCAI places significant emphasis on ethics and governance in AI, developing frameworks to ensure AI deployment aligns with Pakistan's values and policies and with the global SDGs.[19]

[17] *NCAI – National Center of Artificial Intelligence. (2024, October 30). Retrieved from https://ncai.pk*
[18] *Pakistan 2025: One Nation - One Vision | ESCAP Policy Documents Management. (2024, October 30). Retrieved from https://policy.asiapacificenergy.org/node/2910*
[19] *(Talha), P. A. (2024, October 30). Ministry of Information and Broadcasting (MOIB), Pakistan. Retrieved from https://www.moib.gov.pk/News/60581*

Trainings and Bootcamps

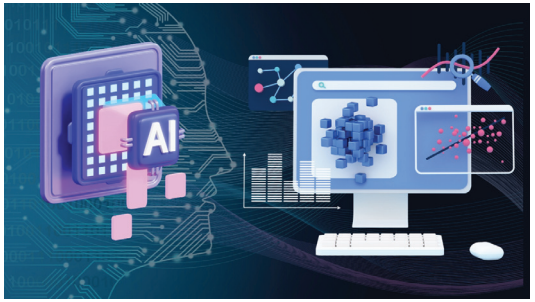
Various government bodies, ministries, and other organizations have launched training and collaboration initiatives in the AI space. Prominent examples include:

The Presidential Initiative for Artificial Intelligence (PIAIC) offers programs for distance learning as well as on-site learning in major cities of Pakistan.[20] The program was launched in 2018 but the President of Pakistan, Dr. Arif Alvi, with an initial target to enroll as many as 100,000 students within a year.

The Prime Minister's Youth Skills Development Program offers comprehensive courses in AI, Data Science, Blockchain, and a variety of other topics from the platform of the National Vocational & Technical Training Commission. These programs also offer accreditation options and recruitment and career counseling services.

The government of Gilgit Baltistan launched a High Impact Skills Development Program in partnership with NUST in 2023. These 6-month intensive training programs, conducted in Gilgit and Skardu, impart critical skills in Data Science, AI, and Blockchain.

A group of IT entrepreneurs has recently launched the Certified Cloud Applied Generative AI initiative to train 30,000 IT students, engineers and other professionals.[21] The group is also compiling a database of trained IT individuals/experts in Pakistan to connect them with Pakistani-American



tech entrepreneurs especially in Silicon Valley.

The Ministry of Education recently entered into a collaboration with NUST to introduce a cutting-edge curriculum in coding, robotics, and artificial intelligence (AI) for primary school students.[22] This project, anticipated to be a game changer, is piloting in Islamabad with eventual plans to expand nationwide.

Google for Startups has recently introduced a new program, AI Academy, to help and accelerate the growth of artificial intelligence startups in Pakistan.[23] The program will bring together more than 20 startups that are developing AI-based technologies. The AI Academy would get access to Google's global AI experts for individual guidance and support and a Google Cloud Credit of up to USD 350,000 would also be added to the account of the startup to promote AI development and experimentation. These free-of-cost initiatives have already started to bear dividends in the form of boosting the freelance economy, emergence of new startups, and other success stories.[24]

[20] *Presidential Initiative for Artificial Intelligence & Computing. (2024, January 26). Retrieved from https://www.piaic.org*
[21] *Sandhu, K. A. (2024). 'Certified Cloud Applied Generative AI' initiative to train 30,000 IT students. Nation. Retrieved from https://www.nation.com.pk/25-May-2024/certified-cloud-applied-generative-ai-initiative-to-train-30-000-it-students*
[22] *Sohaib, R. (2024). Education Ministry to Teach Coding, Robotics, and AI to Students at Primary Level. ProPakistani. Retrieved from https://propakistani.pk/2024/08/30/education-ministry-to-teach-coding-robotics-and-ai-to-students-at-primary-level*
[23] *SIFC. (2024, September 30). Retrieved from https://www.sifc.gov.pk/news/349*
[24] *Mallick, M. U. (2023). Changing lives through free-of-cost IT learning initiatives. DAWN. Retrieved from https://www.dawn.com/news/1774099*

Leading Pakistani Players

Afiniti, a US-based company, is a pioneer in the customer experience (CX) AI space.[25] It is a unicorn valued at USD 1.6 billion which operates its key R&D center in Lahore, comprising hundreds of highly skilled engineers, data scientists, and AI specialists. Using advanced AI algorithms, the company's patented technology can predict customer needs, anticipate issues, and personalize interactions, transforming traditional customer service into a more efficient, proactive system. Afiniti's global AI solutions have been implemented by major telecom operators across several continents, servicing over 500 million customers.

BaseH, a Karachi-based AI technology company, is one of Pakistan's pioneering players in artificial intelligence innovation, with a valuation of USD 4 million.[26] Founded in the National Incubation Center, it gained widespread recognition with its development of Dante, a "robot journalist" that automatically generates news content. Dante was first employed to produce closing reports for the Pakistan Stock Exchange, showcasing AI's potential to handle real-time data and generate market insights autonomously.



Addo AI is a prominent AI consulting firm, headquartered in Singapore, with significant presence in Pakistan.[27] Addo AI has gained recognition for advancing smart city initiatives, and was notably named by Forbes as one of four AI companies in Asia poised to transform industries. Addo AI's expertise spans various domains, including intelligent transport, healthcare, agriculture, and finance. They are also involved in significant government partnerships, using AI to optimize municipal services and create safer, more efficient environments in urban areas.

Motive, formerly known as KeepTruckin, is a technology company with a focus on automating operations for the physical economy.[28] Motive's core offering is its Automated Operations Platform, which integrates IoT hardware and AI to streamline tasks such as vehicle and equipment tracking, driver safety, compliance, and maintenance. This platform provides businesses real-time operational visibility, enhancing both productivity and profitability by automating key workflows across industries. As of its most recent funding round, Motive's valuation stands at approximately USD 2.85 billion.

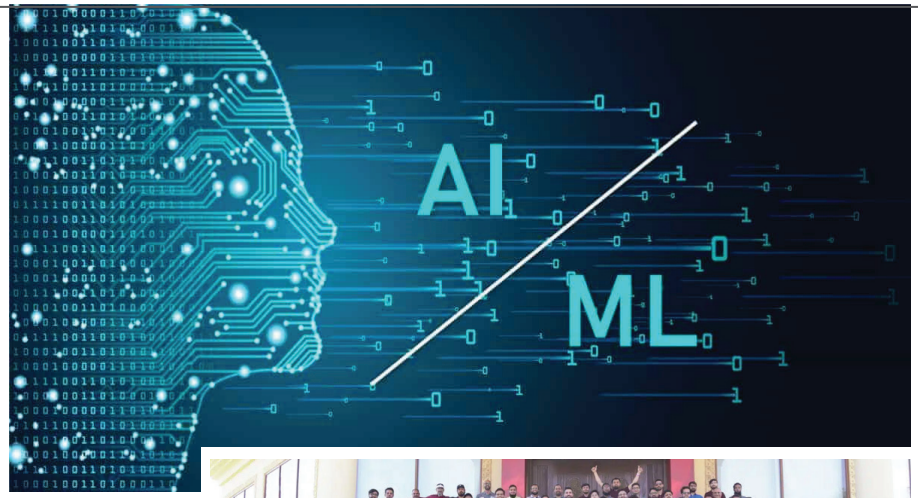
[25] *Afiniti is CX AI. (2024, October 30). Retrieved from https://www.afiniti.com*
[26] *Khan, I. A. (2024, August 20). AI News writer (Natural Language Generation) - baseH. Retrieved from https://base-h.com*
[27] *Cloud Data & AI | Innovative Services & Solutions | Addo.ai. (2024, September 24). Retrieved from https://addo.ai*
[28] *Motive | Integrated Operations Platform for the Physical Economy. (2024, October 01). Retrieved from https://gomotive.com*

AI, ML and Data Science Companies in Pakistan

Ai, MI and Data Science efforts in Pakistan can be broadly classified into the following categories:

Category	Companies
AI-Focused Innovation	10Pearls, Addo AI, Afiniti, VisionX, Folio3 AI
Custom Software and Digital Solutions	NorthBay Solutions, Programmers Force, Cubix, Datum Brain, Clustox
Specialized Industry Solutions	XpertFlow, Edraak Systems, Renzym, SmartNeura, Tutor AI







10Pearls

10Pearls is a digital development firm recognized globally for its expertise in helping businesses transform through AI-driven innovation, product design, and scalable technology solutions. With AI deeply integrated into its service offerings, 10Pearls empowers clients to adapt and thrive in competitive markets by employing advanced artificial intelligence and machine learning strategies. The company's AI Launchpad is designed to accelerate innovation, transforming ideas into actionable proofs of concept within a 90-day timeframe. Headquartered in Washington, D.C., 10Pearls has a team of over 1,300 professionals spanning four continents, serving as a comprehensive partner in digital transformation across diverse sectors.

10Pearls has achieved significant recognition in the industry for its work. It has been listed on the Inc. 5000 for six consecutive years as one of America's fastest-growing private companies and was highlighted in the Financial Times' list of the fastest-growing companies in 2022. In addition, 10Pearls was recognized by Forrester and Gartner for its leadership in AI consulting, digital transformation, and agile methodologies. The company has also been awarded for its commitment to diversity and social impact, earning titles such as the Most Diverse Midsize Company in Greater D.C. by the Washington Business Journal and recognition on Built In's list of the Best Places to Work for both 2023 and 2024.

With an extensive portfolio of services, 10Pearls combines expertise in AI consulting, custom software development, and cloud solutions to tackle complex business challenges.

The company is proficient in generative AI, data analytics, and cybersecurity, offering end-to-end support for businesses in highly regulated industries such as healthcare, financial services, and energy. Partnering with leading technology providers like Salesforce, Appian, Google Cloud Platform, and Microsoft Azure, 10Pearls leverages robust platforms to deliver secure, scalable solutions tailored to each client's needs. Through agile, high-velocity delivery models, 10Pearls emphasizes both speed and precision, ensuring that each project aligns with clients' strategic objectives.

To support innovation, 10Pearls fosters partnerships with AI leaders such as OpenAI, Meta, and Stability AI. By incorporating cutting-edge tools like DALL.E, Ultralytics Yolo, and LangChain, the company expands its capabilities in image recognition, natural language processing, and other AI-driven applications. These collaborations enhance 10Pearls' ability to deliver advanced digital experiences, blending innovative technology with deep industry knowledge. By focusing on outcomes rather than outputs, 10Pearls empowers development teams to adopt a product-centric mindset, fostering a strong sense of ownership that translates into tangible client value.

As a mission-driven organization, 10Pearls balances profitability with a commitment to social good, distinguishing itself as a "double bottom line" company. With offices in the United States, Costa Rica, Pakistan, Colombia, Peru, and the UK, 10Pearls combines a global footprint with a localized approach to client service. By offering insights and case studies, the company enables clients to make informed decisions, tackling challenges with creativity and efficiency. Whether it's AI consulting, mobile and web app development, or cybersecurity, 10Pearls remains a trusted partner for organizations seeking to navigate digital transformation and future-proof their business strategies.



ADDO AI

Addo AI

Addo AI is a data science and artificial intelligence consultancy that enables organizations to unlock the full potential of data and machine learning for operational and strategic improvements. Established as a key player in the AI ecosystem, Addo AI provides a comprehensive range of services, from data engineering and analytics to custom AI model development and cloud-based infrastructure solutions. Its client portfolio spans diverse sectors, including telecommunications, healthcare, banking, and public sector organizations, each benefitting from Addo AI's expertise in data-driven decision-making. The company is also committed to facilitating digital transformation through AI, making it an influential partner for enterprises seeking to optimize processes and innovate in a fast-paced digital landscape.

The company has received accolades from respected global publications and industry bodies, affirming its reputation as a prominent AI and data consultancy. Named among Asia's top AI companies by Forbes and recognized by media outlets like CNN and KrEurope, Addo AI has solidified its industry standing through innovative solutions and consistent performance. Additionally, it was recently recognized by the Pakistan Software Houses Association (P@SHA) and Pakistan Software Export Board



(PSEB) as a leading IT and ITES exporter for 2024. Such achievements highlight Addo AI's impact across borders and its dedication to delivering high-caliber AI and data solutions.

With a focus on speed, quality, and scalability, Addo AI has processed over 1,000 petabytes of data and implemented more than 1,000 AI use cases. By combining high-quality data with sophisticated AI algorithms, the company ensures that clients receive actionable insights and rapid returns on their investments. Addo AI's cloud services also enable scalable, robust infrastructure tailored to evolving business needs, and its proprietary tools streamline data processing and AI model deployment across complex digital environments. This scale of operations positions Addo AI as a comprehensive provider for organizations seeking data-driven transformations.

Among its flagship products, Addo AI's enterprise knowledge management tool, "Harry," assists companies in organizing and



accessing crucial information efficiently. Designed to enhance compliance, risk management, and employee productivity, Harry is instrumental for large organizations managing vast data repositories. Addo AI also offers targeted AI solutions such as predictive maintenance, marketing optimization, and customer service chatbots, which serve specific industry requirements and support a wide range of use cases. These solutions are tailored to sectors like healthcare, telecommunications, and public service, where data-driven insights are increasingly crucial for competitive advantage.

Addo AI collaborates with industry-leading technology partners, including Amazon Web Services, Google Cloud, Microsoft Azure, and Salesforce, ensuring its clients benefit from a robust, cutting-edge tech ecosystem. These partnerships enable the company to provide comprehensive, scalable solutions that leverage the latest in cloud, AI, and machine learning technologies. Clients like ComfortDelGro, Singtel, and prominent Asian telecom companies have seen measurable improvements in efficiency and customer engagement through Addo AI's solutions, reflecting the company's commitment to delivering high-impact data and AI solutions across industries.

Afiniti

Afiniti, is an artificial intelligence (AI) focused company aimed at enhancing customer service efficiency through predictive analytics and behavioral pairing. The company's technology, focused on optimizing interactions between customers and agents, is utilized worldwide across various industries, including telecommunications, finance, healthcare, and insurance. Headquartered in Hamilton, Bermuda, Afiniti operates in multiple countries and was recently valued at over $1.6 billion. Its flagship products, driven by advanced AI algorithms, predict customer behaviors to improve call center outcomes, helping businesses enhance customer engagement and operational performance.

Afiniti has earned several prestigious awards and accolades for its technological advancements and industry contributions. The company was recognized with the Artificial





Intelligence Excellence Awards for its leading AI solutions and received honors at the Global InfoSec Awards for its contributions to cybersecurity. Additionally, Afiniti was celebrated at the Customer Experience Innovation Awards for its advancements in optimizing customer interactions. Its placement in the Forbes AI 50 highlights Afiniti's status as a top AI company, while the Tech Innovator Awards have acknowledged the firm's impact on technology innovation across industries.

Afiniti's impact is demonstrated through measurable outcomes for clients, with its AI solutions reportedly generating USD 2.24 billion in client impact annually. The company's AI-powered behavioral pairing technology has optimized more than 1.7 billion customer-agent interactions, showcasing its effectiveness in improving customer engagement and driving business results. Afiniti holds over 500 patents, underscoring its commitment to pioneering research and development in AI and solidifying its leadership in the market. The firm's technology is continually refined to



meet the evolving needs of customer service departments, further strengthening its position in AI-driven customer experience enhancement.

Afiniti's core offerings include its AI behavioral pairing system, which matches customers with agents most likely to drive positive outcomes. This system leverages data from previous customer interactions to predict and optimize future behaviors, providing clients with improved customer satisfaction and retention rates. Another primary service is Afiniti's customer engagement AI, which enhances call center efficiency by analyzing caller characteristics and tailoring the service experience in real-time. Through its expertise in AI-driven analytics and behavioral prediction, Afiniti enables companies to enhance customer service performance significantly.

The company's partnerships span a range of industry giants, providing Afiniti with a strong network to scale and deliver its AI solutions globally. By working with major players in telecommunications, finance, and healthcare, Afiniti aligns itself with clients looking to leverage AI for customer experience improvements. Its technology has been implemented by top brands and organizations worldwide, making Afiniti a trusted provider of AI solutions that facilitate deeper, more personalized customer engagements.

NorthBay

NorthBay Solutions, with operational bases in the United States and Pakistan, is a premier IT services provider known for its expertise in custom software development, enterprise solutions, and cloud computing. Founded to deliver strategic technology solutions, NorthBay has a notable presence in Lahore and serves a diverse clientele globally, from startups to large enterprises. The company's offerings center on accelerating clients' time-to-market through data-driven and cloud-focused solutions, with its services spanning project management, custom software development, quality assurance, and ongoing managed services. With an extensive focus on AWS cloud architecture, NorthBay has positioned itself as a critical partner in modern digital transformation, supporting clients across finance, healthcare, retail, media, and more.

NorthBay Solutions has gained industry recognition for its partnership with Amazon Web Services (AWS), achieving AWS Premier Consulting Partner status and earning certifications that reinforce its cloud expertise. Its achievements include AWS competencies in AI and ML, underscoring its expertise in machine learning-driven innovation. The firm has collaborated with clients like IBL Group and partnered with CloudRail to introduce advanced data analytics and industrial IoT (IIoT) solutions in Pakistan.



In addition, NorthBay has earned ISO 27001 certification, which demonstrates its commitment to high standards of information security, a critical asset for clients across regulated industries.

With a global workforce of 290 professionals, primarily based in its Lahore office, NorthBay has worked on projects that highlight its technical capabilities, such as migrating large-scale SAP business applications to AWS. In the data and analytics space, NorthBay provides solutions like Data Lakes and analytics development, helping clients transform raw data into actionable insights. NorthBay's DevOps Enablement and Cloud Application Development services streamline clients' application lifecycles on AWS, enhancing operational efficiency and adaptability. Its Managed Services ensure that clients benefit from seamless cloud operation, backed by NorthBay's expertise in security, scalability, and performance optimization.

NorthBay's solutions include Cloud Migration Services, aimed at helping



clients transition from legacy systems to modern, efficient cloud environments on AWS. The firm also offers AI/ML-driven generative AI solutions to facilitate innovative business applications, along with Data Lake and Analytics Solutions for companies seeking deeper insight from their data. Other services include modernizing legacy applications to AWS environments and deploying Next-Generation AWS Managed Services, ensuring clients' cloud infrastructure is optimally managed and secure. NorthBay tailors its engagement models to client needs, providing flexible support through staff augmentation, strategic consulting, and ongoing managed services.

In addition to its AWS competencies, NorthBay partners with Snowflake and CloudRail, enhancing its capacity to serve clients with cutting-edge data and IIoT solutions. NorthBay's extensive experience in sectors like finance, healthcare, and manufacturing allows it to address the unique challenges faced by these industries. With over a decade of experience in AWS services, more than 350 AWS-accredited staff members, and 100 AWS certifications, NorthBay Solutions is well-equipped to support companies seeking to leverage the latest in cloud technology to meet their evolving business objectives.

> *NorthBay is my go-to staff augmentation partner and provider for building applications on the AWS infrastructure. They are very knowledgeable, reliable, communicative and professional, and always go above and beyond to help me achieve my business and technical goals.*
> ***– CTO Video and Media Streaming MediaTech Company***

> *NorthBay is an excellent team with great skills, excellent communication, creativity, quick resolutions of issues, and very productive time use.*
> ***– CTO, EdTech Learning and Credentialing Company***

Programmers Force Private Limited

Programmers Force

Programmers Force, founded in 2016, is a pioneering tech company from Pakistan recognized as the nation's first AI-powered technology firm. With headquarters in Lahore, it has rapidly grown into a global presence, with over 1,000 team members and a portfolio exceeding 1,000 completed projects. The firm focuses on AI-based solutions tailored for diverse industries, addressing areas such as data science, legal-tech, and custom software development. Programmers Force fosters a collaborative and growth-oriented work culture, with offices across five countries to support its clients' technological advancement and operational goals.

The company has gained industry attention for its contributions to data democratization and AI-driven automation, earning a solid reputation for its innovative solutions. Recognized as a leader in the AI space, Programmers Force has developed partnerships that allow it to expand its influence and deliver high-impact services globally. Its commitment to excellence is further reflected in its ISO certification, underscoring a commitment to high standards in information security and service delivery. With a team of over 1,000 professionals, Programmers Force operates on a unique model that facilitates large-scale project completion, often with teams averaging eight members. The company has implemented over 1,000 projects worldwide, leveraging its expertise in AI and machine learning to empower clients in finance, healthcare, and retail, among other industries. Through its Graduate Gateway Program, Programmers Force also invests in talent development, ensuring a steady pipeline of skilled professionals adept at deploying its advanced solutions.

Programmers Force offers an array of AI-powered products and services, including advanced data science platforms that turn raw information into actionable business insights. Its legal-tech division ensures compliance for clients navigating complex digital landscapes, while its AI-driven sales and business support tools streamline client operations. Additionally, the company provides tech development services that support custom software projects, from initial concept to final deployment. Programmers Force's data solutions are designed to empower clients with tools for analytics and decision-making, while its AI automation platforms enhance process efficiency and scalability.

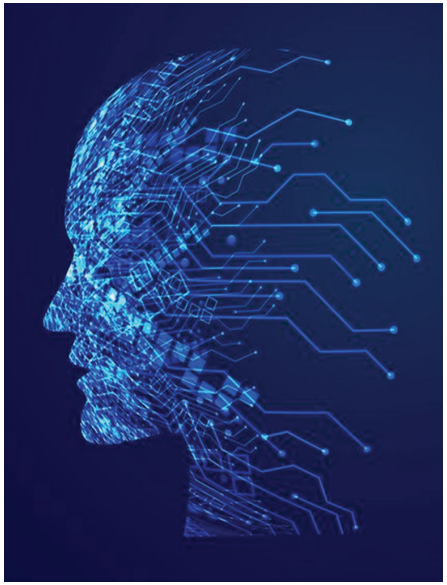
Dedicated to creating a balanced and supportive workplace, Programmers Force emphasizes professional growth and flexibility. The company offers flexible work hours, a provident fund, and a rewards program to foster team morale and retention. Its in-house training initiatives encourage employees to reach their full potential, reinforcing the company's mission to redefine technology solutions through AI and a forward-thinking, people-centered approach.

Swati Tech

Swati Tech is a global technology firm specializing in software development, artificial intelligence (AI), blockchain, machine learning, and the metaverse. Established to drive forward innovation in the tech industry, the company aims to empower businesses through advanced digital solutions that support decentralized systems and rapid development cycles. With operations extending to various regions, Swati Tech has built a reputation for adaptability and service across different sectors, focusing on scalable, data-secure applications that enhance productivity and operational efficiency.

Swati Tech holds multiple ISO certifications, including ISO 14001:2015, ISO 45001:2018, ISO 27001:2013, and ISO 9001:2015, underscoring its commitment to quality,





environmental responsibility, and secure data management. These certifications reflect the company's dedication to maintaining rigorous standards across its service offerings, ensuring that each solution aligns with both client expectations and global regulatory frameworks. The firm's dedication to compliance and security supports its expansion across industries, meeting the needs of organizations seeking technology solutions that combine precision, reliability, and innovation.

The company's portfolio includes a broad range of products tailored to diverse business needs. Notable offerings include Attendify, an attendance management app that uses facial recognition and geolocation technology to streamline



check-in processes; ACE, an AI-driven retail solution designed to create a seamless shopping experience by eliminating queues; D-iD, which integrates blockchain and AI to secure digital identities; and SecurEye, a platform for web and mobile app development with a focus on user experience and cross-platform functionality. Additionally, SERP provides a robust ERP solution aimed at automating and digitizing business processes, while SYM offers telecom clients real-time video, voice, and chat translation capabilities.

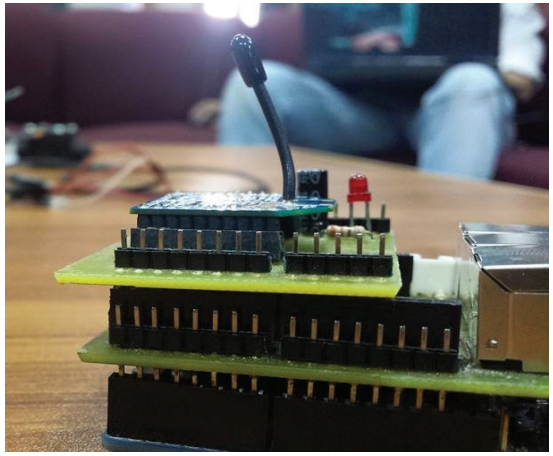
Swati Tech has an extensive track record, with over 50 ERP solutions, 20 computer vision applications, and 15 AI-driven products deployed globally. The firm has also created 10 medical analytics systems and delivered numerous WebRTC, blockchain, and NFT solutions. Through its collaborations and consistent innovation, Swati Tech has built a versatile technology suite that allows businesses to optimize operational workflows, enhance client engagement, and stay competitive. This track record has positioned the company as a go-to provider for organizations seeking cutting-edge technological enhancements in their processes.

With a focus on emerging technologies and adaptive development methodologies, Swati Tech supports businesses in navigating complex digital landscapes and capitalizing on the benefits of decentralized technology. Its global clientele includes companies from industries such as finance, healthcare, and retail, looking to integrate AI, blockchain, and machine learning into their business models. Swati Tech's solutions offer clients scalable technology with a forward-looking approach, reinforced by strategic partnerships and a robust commitment to quality assurance.

Research Center for Artificial Intelligence (RCAI)

The Research Center for Artificial Intelligence (RCAI) is a technology innovation hub focused on advancing AI, IoT, and embedded systems. Based in Pakistan, RCAI aims to foster a research-oriented environment that cultivates skilled professionals in Information and Communication Technologies (ICT). Through collaborative projects and academic initiatives, RCAI emphasizes cost-effective, high-impact product design. Its project portfolio spans multiple industries, including agriculture, healthcare, and urban infrastructure, with notable contributions to smart irrigation systems, secure home automation, and advanced healthcare solutions. RCAI's focus on applied research enables it to bridge the gap between academic knowledge and practical technological solutions.





One of RCAI's flagship initiatives, the Smart City Lab, plays a crucial role in Pakistan's National Center of Artificial Intelligence, supported by the Higher Education Commission (HEC). This lab serves as a central platform for industry and academic collaboration, driving forward AI-driven smart technologies for urban development. Key research areas within the lab include intelligent cyber-physical systems, building information management, smart transportation systems, and augmented reality applications tailored for smart cities. By creating technological solutions for urban challenges, the Smart City Lab helps enhance urban living through smart infrastructure, aiming to transform cities with efficient resource management and real-time data analytics.

RCAI's technical prowess is demonstrated in its diverse project portfolio, including solutions like Citi-Pulse, a predictive urban data platform, and VPS (Visual Positioning System), which leverages augmented reality to deliver precise geolocation and visual data overlay. Additionally, its IoT system is a versatile solution tailored for industrial applications, providing real-time monitoring and control capabilities. The center's Face Check application incorporates face recognition technology to streamline secure access and attendance, while its traffic management system aids in vehicle detection and license plate recognition, enhancing urban mobility and security.



In alignment with its goal to innovate within multiple technological domains, RCAI holds several ongoing projects that target various fields of application, including AI, web development, and PCB design. Its focus extends to embedded systems and machine learning, providing solutions that integrate seamlessly into larger systems, such as robotics and intelligent decision-making frameworks. RCAI has also built a reputation for tackling challenges in satellite communication, speech processing, and image processing, making it a versatile center for both foundational and applied research.

As a prominent center for AI research, RCAI has established strong connections within the international AI community. It aims to expand Pakistan's role in the global AI landscape while supporting government and industry stakeholders with consultancy services and training programs. Through its extensive portfolio of projects and partnerships, RCAI addresses critical areas such as infrastructure, robotics, and decision support, ensuring that its advancements contribute to national priorities in fields like finance, energy, and resource management.





Company of Intelligence Systems and Networks Research (CISNR)

CISNR, registered with the Asian Development Bank and World Bank as a consulting firm, offers specialized consultation services in technological and social development sectors, with a focus on creating scalable, smart, and adaptive solutions. The company works on both emerging and established technologies, providing clients with expertise that spans from initial analysis to final implementation. By focusing on data-driven, intelligent solutions, CISNR aims to deliver technological advancements that support safety, economic progress, and environmental stewardship through effective data acquisition and integrated technology solutions.

The organization's collaborations with prominent international and national entities underscore its impact in various fields. CISNR has partnered with UNICEF to enhance child welfare and education through data intelligence, and it has collaborated with the Government of Pakistan on disaster management and public health initiatives. Additionally, CISNR works closely with the Higher Education Commission (HEC) to advance research in higher education. Its innovative contributions to artificial intelligence and disaster prevention have been recognized with multiple accolades, including the National AI Awards and recognition for its advanced flood forecasting and early warning systems, which have set a benchmark in risk management technologies.

CISNR's extensive portfolio includes a range of products and services geared toward engineering, data solutions, and custom device development. It provides electrical and electronic engineering services, micro-controller-based smart devices, sensor integration, and comprehensive data acquisition systems. Among its flagship products, "Electro Cure" addresses electrical grid issues with monitoring and control solutions to improve power distribution efficiency. "Transfo Cure" is a diagnostic tool that assesses transformer health, helping utilities prevent outages by identifying potential failures. "Agro Cure" supports the agriculture sector by delivering smart farming solutions through data monitoring, enhancing crop yield and water management. Lastly, "Metero Cure" provides meteorological monitoring to help mitigate climate risks by tracking environmental conditions.

CISNR's client base includes government bodies, educational institutions, and various international organizations that leverage its technological solutions to improve infrastructure, data analysis, and environmental monitoring. The company's projects are marked by an emphasis on scalability and adaptability, allowing for deployment across diverse geographic and economic landscapes. Its expertise in data intelligence and engineering solutions has positioned CISNR as a resourceful partner, offering products that enable clients to respond effectively to pressing social and environmental challenges.

Through its ongoing projects and partnerships, CISNR continues to push the boundaries of technology and social development, focusing on solutions that foster sustainable growth. By combining global expertise with local application, the firm maintains its commitment to innovation and client success in sectors like energy, agriculture, public health, and education.



C

Cubix

Cubix is a full-cycle software development company that specializes in designing, building, and integrating complex enterprise software, mobile and web applications, and data-driven business intelligence solutions. Established in 2008, Cubix operates with over 200 experts distributed across three global offices, delivering cutting-edge digital products tailored to meet the unique needs of its clients. By harnessing emerging technologies, Cubix enables companies such as Estee Lauder, Clinique, and Politico to achieve a competitive edge through digital transformation and innovative design.

The company has established partnerships with industry leaders like Microsoft, Amazon Web Services (AWS), Google Cloud, and IBM, enhancing its cloud, artificial intelligence, and software capabilities. Cubix has been acknowledged by major platforms like Clutch, GoodFirms, TopDevelopers.co, and AppFutura, which have awarded Cubix for its excellence in app and software development. These recognitions position Cubix as a trusted name in the tech industry, underscoring its commitment to quality and advanced digital solutions.

Cubix has completed over 1,300 projects, supported by a team of over 350 skilled professionals, or “Cubixians.” The company has worked with more than 600 clients globally, delivering software solutions tailored to diverse industries. Cubix’s projects span across various sectors, offering scalable and robust products that are designed to address specific client requirements and deliver measurable results.

Cubix’s portfolio includes innovative products across different verticals, showcasing its versatility and technical expertise. Projects include the development of Goobr, a social networking app for pets and pet owners, and Party Shark, a social networking and event management app aimed at young audiences. Additionally, Cubix has worked with Tulsa Airport to improve its digital presence and has developed Wagmi, a multiplayer tower defense game that incorporates NFT assets, reflecting its proficiency in both corporate and entertainment sectors.

With a focus on building impactful, user-centered solutions, Cubix serves industries such as finance, real estate, hospitality, healthcare, and education. Through continuous innovation, collaborative partnerships, and an unwavering dedication to client satisfaction, Cubix has positioned itself as a prominent leader in full-lifecycle software development, contributing to advancements in digital infrastructure across the globe.

datumBRAIN

Datum Brain

Datum Brain is a technology-driven company focused on providing custom engineering solutions to empower businesses in the digital age. Leveraging expertise in data science, artificial intelligence, and software engineering, Datum Brain delivers innovative applications that utilize advanced technologies to meet unique business needs. The company's strength lies in developing serverless architectures and scalable solutions that span areas like IoT, natural language processing, and big data processing. By blending research-driven approaches with hands-on experience, Datum Brain enables clients to implement secure, efficient, and cost-effective technology solutions.

With recognition from industry partners, Datum Brain has collaborated with leading technology providers like AWS, Google Cloud, and Azure, enhancing its capabilities across cloud services, AI, and machine learning. The company has been acknowledged by independent technology evaluators for its expertise in big data solutions and serverless application development, strengthening its reputation in software and AI engineering. Datum Brain has also earned accolades in AI model development, data extraction, and data visualization for its contribution to various industries, ranging from finance and healthcare to e-commerce. Datum Brain supports a workforce of seasoned developers, data scientists, and engineers, proficient in languages and frameworks like Python, Scala, TensorFlow, and Node.js. The company has completed hundreds of projects, successfully serving a global client base. Datum Brain’s custom software development capabilities span multiple industries, and its specialized focus on AI allows it to deliver products like predictive analytics, conversational AI systems, and data-driven decision support tools that directly impact client outcomes and streamline operational workflows.

Products and services developed by Datum Brain include data extraction tools, ETL pipelines, and intelligent data management solutions designed to handle large-scale data efficiently. They also provide advanced AI products, such as generative language models and machine learning tools for real-time data processing. Datum Brain’s custom-built applications are optimized to drive performance and support complex, data-intensive operations in diverse domains.

Driven by a commitment to innovation, Datum Brain maintains a future-focused approach that includes ongoing R&D and continuous learning within the rapidly evolving tech landscape. Through consistent engagement with the latest technologies and a dedication to quality, Datum Brain seeks to provide scalable and adaptable solutions that evolve with clients’ needs, helping them stay ahead in competitive markets.

data BI

Data BI

Data BI LLC specializes in data analytics, business intelligence, and data visualization, supporting a wide array of sectors such as logistics, healthcare, e-commerce, finance, and education. The company uses advanced machine learning and data-driven decision-support systems to enable business owners and managers to analyze data independently, make informed decisions, and achieve operational efficiency. Data BI LLC's comprehensive analytics solutions encompass everything from custom dashboard creation to complete data analysis and strategy consulting, all designed to transform raw data into valuable insights. Through these services, clients can harness their data to address performance gaps and uncover growth opportunities.





Since its founding in 2018, Data BI LLC has gained recognition for its robust data solutions and exceptional project execution. The company has delivered over 450 projects, with an extensive portfolio of clients that includes leading organizations such as Johnson & Johnson and Advanced Energy. Their expertise has earned them partnerships with notable industry leaders in data technology, solidifying their reputation as a reliable partner in the data and analytics field. Recognized for their high standards and customer satisfaction, they consistently receive positive client testimonials, many praising the team's technical skill, professionalism, and efficiency in delivering custom data solutions. Data BI's accomplishments have garnered multiple accolades, affirming their place in the data analytics landscape.

Data BI LLC has handled more than 500 unique data-driven projects, creating over 100 custom dashboards for clients worldwide. With a client base that spans over 20 international companies, they have proven expertise in applying tools such as Power BI and Tableau to unify data from diverse sources, delivering real-time business insights through personalized, user-friendly dashboards. Additionally, their tailored analytics and visualization services support clients in implementing data strategies that meet evolving industry demands, making data-driven decision-making accessible and impactful.

Their main services include data extraction, cleaning, and modeling, as well as advanced analytics and interactive dashboards. The company's Power BI and Tableau services are designed for seamless integration and deployment, allowing clients to manage and visualize their data efficiently. Beyond visualization, Data BI provides strategic consulting to help organizations develop data strategies that align with business goals. This end-to-end service model allows clients to harness insights effectively, achieving outcomes that drive operational efficiency, innovation, and resource optimization.





Data BI LLC's ongoing service improvement processes and iterative feedback loops ensure that their solutions stay aligned with client objectives. From the initial consultation to final deployment and beyond, their team offers continuous support, making adjustments based on client feedback and evolving data needs. By maintaining a transparent process and providing regular updates, Data BI LLC positions itself as a long-term analytics partner, helping clients gain measurable value from their data through informed, strategic decision-making.

> *Data BI is a team of organized and professional people. Must recommend.*
> *– Ciao.*

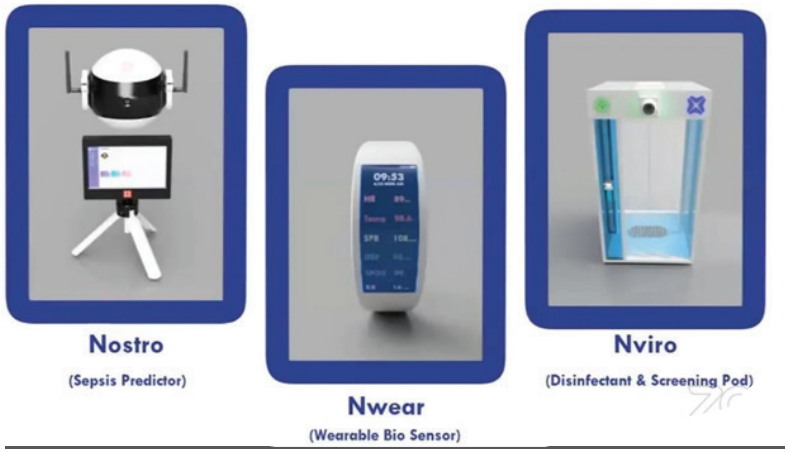
XpertFlow

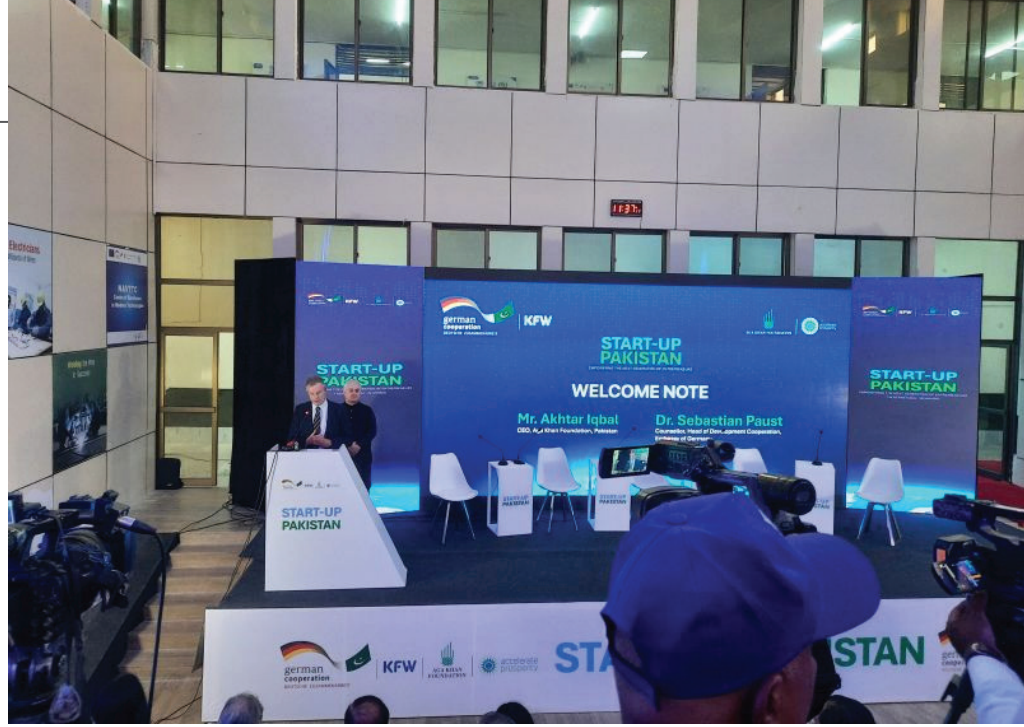
Xpertflow

XpertFlow Technologies Pte. Ltd. is a healthcare-focused AI startup that provides advanced decision support systems to help medical professionals anticipate and prevent life-threatening conditions. Established in 2018, the company specializes in using deep learning and machine learning algorithms to offer real-time predictive insights, aiming to enhance treatment quality in intensive care and high-dependency units. Its core team consists of engineers and AI experts supported by a network of medical advisors, including doctors, PhDs, and industry leaders. With notable recognition from Temasek's sustainability section and Yahoo Videos, XpertFlow has made significant strides in integrating AI with healthcare to support medical professionals and patients alike.

XpertFlow has gained accolades in various tech and startup competitions. It emerged as a winner in the AI Ideas Challenge (AI TechVerse Pakistan) and placed third in the AI/ML Reactor Program hosted by Epiphany and AWS. The company was also recognized at the Startup Chile Demo Day, where it received the "Most Innovative Solution" award in 2021. Additionally, XpertFlow has been featured in leading publications, solidifying its position as an innovative force in healthcare technology.

With over six years in the industry, XpertFlow's portfolio includes a range of proprietary AI-driven products designed to transform patient care. Their flagship product, Nostro, monitors critical patients in real-time and provides alerts to healthcare staff





to help address potential complications. Another innovation, Nwear, is a wearable device that simplifies vital monitoring, providing patients and professionals with on-demand health data. Additionally, Nview offers six-hour predictive analytics and patient prioritization tools, enabling healthcare providers to better manage high-risk patients and resources. Each solution incorporates a user-friendly interface, ensuring that medical staff can seamlessly integrate these tools into their workflow.

Alongside product development, XpertFlow provides training programs in AI and machine learning for organizations looking to adopt advanced data solutions. Their expertise extends into software development, IoT applications, and predictive forecasting, focusing on solutions that align with Sustainable Development Goals, particularly around reducing maternal and child mortality (SDGs 3.1 and 3.2). Through strategic alliances with companies, incubators, and accelerators worldwide, XpertFlow fosters global partnerships to advance AI's role in medical technology and create lasting impacts on healthcare systems.

In addition to its technical offerings, XpertFlow employs a customer-centric approach to iteratively refine its products based on user feedback, aiming to ensure that its technology addresses critical needs in medical care. From initial discovery to deployment, XpertFlow's team collaborates closely with clients to deliver solutions that contribute to life-saving medical interventions, setting a new standard in AI-driven healthcare.

BearPlex

BearPlex is a dynamic technology company specializing in developing innovative digital solutions that leverage Artificial Intelligence, Machine Learning, and advanced software frameworks. Serving a diverse clientele, BearPlex offers a range of services, including AI-driven product development, mobile and web application development, UX and interaction design, and digital transformation. They aim to elevate business processes by incorporating automation and user-friendly designs, ensuring that products are both efficient and intuitive. With expertise in agile methodologies and various development frameworks such as React, Node.js, and PHP, BearPlex crafts robust and scalable solutions tailored to the distinct requirements of each client.

In recent years, BearPlex has garnered industry accolades and client recognition for its commitment to quality and innovation. The company was named a Top Web Design Company by TechBehemoths, underscoring its impact in the tech community. BearPlex's projects have received praise from numerous clients for technical excellence and creative problem-solving, as evidenced by consistently high ratings and positive reviews. The team's dedication to high standards and client satisfaction is further reflected in long-term partnerships with clients in sectors



such as healthcare, insurance, and education.

Among BearPlex's signature projects are Vertex360, a comprehensive NDIS management software designed to enhance operational efficiency in healthcare, and Extended Trust, a SaaS solution developed to streamline automotive management. Another standout project includes the design of a custom recruitment system that automates and simplifies the hiring process, tailored for BearPlex's internal use. By developing custom applications for a range of clients, BearPlex demonstrates its ability to adapt its technology and design practices to a variety of business needs.

BearPlex's operations are supported by an extensive toolkit of development and design tools, including Figma for UX design, Laravel for backend frameworks, and cloud services like AWS and Azure to ensure reliability and scalability. Their proficiency with a wide array of development tools and platforms allows them to deliver on both simple and complex projects, ensuring quality and performance. The company also prioritizes quality assurance and testing protocols to ensure that all applications meet industry standards before deployment.

BearPlex's reputation as a trusted technology partner is reinforced by testimonials from clients across industries who highlight the company's professionalism, technical expertise, and seamless project management. With a customer satisfaction rate of 4.8 out of 5 across multiple reviews, BearPlex stands as a

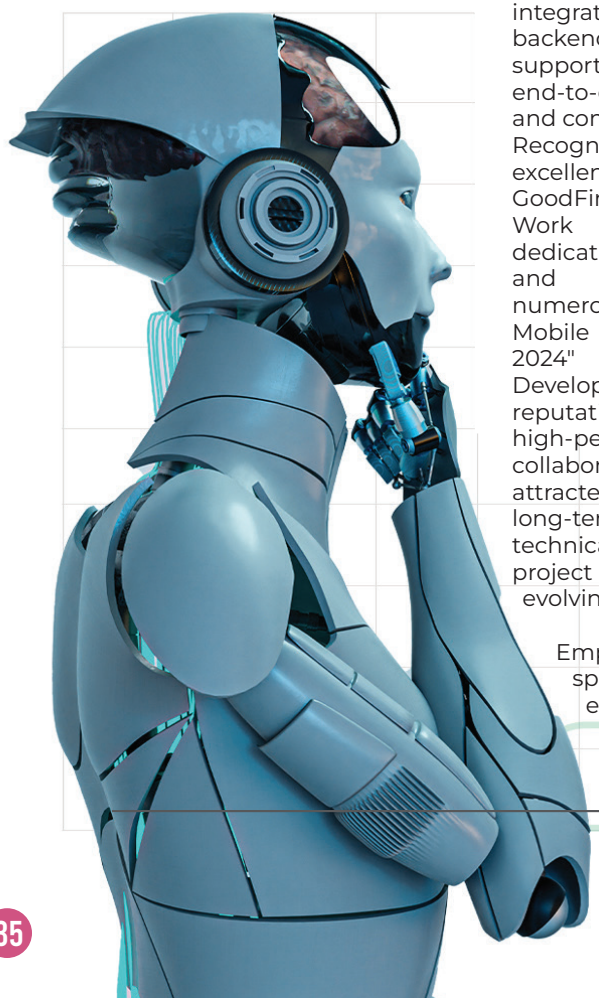


respected and reliable partner for businesses looking to innovate through technology. Their client-centric approach and dedication to fostering long-term partnerships have positioned BearPlex as a sought-after collaborator in the digital transformation landscape.



Clustox

Clustox delivers specialized design and development services, focusing on comprehensive digital solutions across product development, custom applications, and enterprise transformation. Leveraging expertise in full-stack, web, and mobile app development, as well as cloud computing, data engineering, AI, and machine learning, Clustox supports businesses in optimizing digital operations. The company also emphasizes UI/UX design, quality assurance, and DevOps, ensuring a robust pipeline from product strategy through to deployment and ongoing maintenance. In addition, Clustox's SaaS development approach integrates user-friendly interfaces, backend architecture, and technical support, providing clients with end-to-end digital transformations and competitive market positioning.



Recognized for its commitment to excellence, Clustox was honored by GoodFirms as the "Best Company to Work With," underscoring its dedication to high-quality outcomes and client satisfaction. With numerous awards, including "Top Mobile App Development Company 2024" and "Top Ruby on Rails Developers," Clustox has earned a reputation for reliable, high-performance solutions. Their collaboration-driven approach has attracted notable partnerships and long-term clients who rely on Clustox's technical agility to address diverse project demands and adapt to evolving market trends.

Employing over 130 full-time specialists, Clustox has established a global footprint in multiple tech sectors. Key service areas include custom web and mobile app development, AI-driven automation solutions, cloud migration, and data analytics. Their digital transformation services encompass blockchain, IoT, and Web3 technologies, which support clients in staying at the forefront of technological advances. Clustox's data science expertise, combined with capabilities in platforms like AWS and Shopify, allows businesses to achieve significant operational improvements through tailored solutions. They also offer managed services such as IT support, QA testing, and strategic consulting, which assist clients in maximizing technology investments.



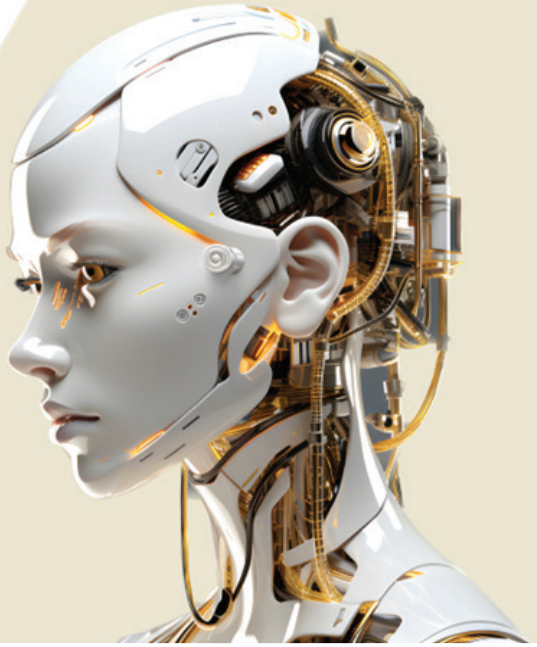
With a client base spanning industries from scheduling software to personal training, Clustox has enabled enterprises like Bookafy and Telbee to scale through highly tailored software applications. Clustox's clients report positive experiences due to their emphasis on efficient delivery and open communication, facilitated through structured processes like CAP ™ methodology for maintaining quality. Clustox's scalable tech services have also supported start-ups, SMBs, and large enterprises in optimizing processes through dedicated teams or fixed-cost project models, allowing businesses to flexibly manage development demands without compromising quality.

As an established provider of cutting-edge digital solutions, Clustox continues to shape business transformation by integrating emerging technologies with traditional business needs. Their strategic expertise in fields like blockchain, generative AI, and cloud solutions aligns with clients' visions for growth, empowering organizations to leverage new digital tools effectively.

VIRTUOSOFT
TECHNOLOGIES

Virtuosoft

Virtuosoft is a dynamic startup specializing in IT and artificial intelligence, with a strong focus on creating tailored software solutions to meet diverse business needs across industries. The company's capabilities include developing advanced AI-driven applications that support automation, enhance decision-making processes, and improve operational efficiency. Virtuosoft's range of services includes enterprise-level application development, technology consulting, legacy application modernization, and software integration. Through its mission to drive digital transformation, Virtuosoft empowers businesses to adapt and grow in a data-centric environment.



Among Virtuosoft's prominent products is SmartSync, a real-time data synchronization tool designed to handle distributed and offline data sources. SmartSync enables organizations to manage data across various formats, such as DBF, CSV, and Excel, providing centralized access and near real-time updates for critical data from distributed systems. This tool is particularly valuable for companies operating across multiple locations or dealing with offline data, allowing them to optimize productivity and maintain data consistency. By facilitating smooth data migration and synchronization, SmartSync addresses the challenges of digital transformation in data-heavy industries.

Virtuosoft's expertise has earned the company industry recognition and a growing client base. Their emphasis on innovation in enterprise application development and modernization has positioned them as a trusted partner for businesses looking to streamline operations and maximize the value of legacy systems. Clients value Virtuosoft's deep technical expertise and capacity to modernize outdated applications while preserving core business functionalities, enabling seamless integration into updated systems. Their commitment to technology consulting helps businesses identify the most suitable platforms and tools for long-term growth.

With a skilled team of developers, Virtuosoft has managed to establish a robust portfolio of services that include enterprise-level application development and application maintenance and support. Their approach to software integration is both thorough and customizable, beginning with a detailed analysis of existing systems and identifying opportunities for enhancement. By aligning software systems, Virtuosoft enhances collaboration and efficiency within client organizations. The application maintenance and support services offered by Virtuosoft ensure long-term reliability and efficiency for their clients, incorporating performance metrics and proactive troubleshooting.

Virtuosoft's forward-looking approach positions them as a key player in the AI and IT sectors, delivering scalable solutions that meet complex technological demands. Their experience in real-time data synchronization and software integration, combined with a commitment to emerging tech, provides a solid foundation for businesses aiming to modernize and grow. Through SmartSync and other strategic services, Virtuosoft continues to support digital transformation, enabling clients to harness the benefits of AI and automation in a rapidly evolving digital landscape.

> *Virtuosoft's dedication and expertise have truly made a difference.Your innovative approach has provided a solid foundation for the success of the entire project.The streamlined procedure from ticket creation to completion reflects a commendable improvement, and I appreciate the establishment of a standard in this regard. Your insights and efforts in this area are crucial, and I thank you for your valuable contributions*
> **– Geo Sunny, IndiaF**



VisionX

VisionX is an emerging leader in AI-powered solutions, offering an extensive array of services that include machine learning, computer vision, and natural language processing (NLP). The company focuses on developing tailored software solutions to enhance digital experiences across industries such as eCommerce, retail, and energy. VisionX integrates advanced technologies to facilitate digital transformation, enabling businesses to streamline operations and strengthen their competitive edge in a technology-driven market. Their solutions support clients in harnessing data insights and operational efficiencies to drive growth and adaptability.

Recognized for their innovative contributions to digital transformation and AI-driven development, VisionX has received accolades from both industry peers and leading organizations. Their achievements highlight a commitment to quality and technological advancement, positioning them as influential players in AI and software development. Their award-winning solutions and consulting services have drawn attention from top industry players, solidifying their role in shaping modern digital solutions. This recognition underscores VisionX's expertise in delivering impactful software that aligns with evolving industry demands.

VisionX's success is also reflected in its strong customer satisfaction metrics, achieving a 4.8/5 rating from 86 verified customer reviews. Their partnerships with high-profile clients such as Accenture, Emaar, and KWARTS demonstrate their reputation and effectiveness within the industry. These collaborations enable VisionX to extend its reach across sectors, supporting clients with customized AI and software solutions. Their strategic alliances further underscore their capability to meet complex project requirements while maintaining quality and responsiveness, which has attracted a diverse client portfolio.





The company's service offerings cover a range of AI and software solutions, with expertise in computer vision, OCR for data extraction, NLP for understanding and contextualizing data, and AR/VR development for immersive digital experiences. VisionX also explores blockchain applications and provides consulting for strategic digital transformations. With its focus on both foundational and emerging technologies, VisionX ensures clients are equipped with the most relevant tools to address modern operational challenges and leverage new business opportunities.

With a global team of product managers, designers, and developers, VisionX provides comprehensive technology consulting, IT outsourcing, and custom software development tailored to client needs. By delivering end-to-end support from strategy to deployment, VisionX empowers businesses to optimize digital strategies, ensuring scalability and adaptability in a competitive market. Their industry-agnostic approach allows VisionX to meet the demands of diverse sectors, creating innovative solutions that drive efficiency, productivity, and growth across digital ecosystems.

> *I have been working with VisionX for many years now and they have been a pleasure to work with. They originally helped us out on a small project, to see if we could work together, and from there, it just spiraled out of control.*
> **– Thomas**

> *VisionX has always come through on time with every project that we have given them. They are a great company to work with because they pay attention to the details and everything is done properly.*
> **– Bart Van Proeyen**



TenX

TenX is an innovative technology startup specializing in Generative AI and digital transformation solutions. The company offers a comprehensive suite of services, including AI, software development, and cloud solutions tailored to convert dispersed data into actionable insights. TenX focuses on delivering solutions that enhance business growth and operational efficiency, providing advisory and strategy services, artificial intelligence, data analytics, cloud DevOps, and robotic process automation (RPA). With expertise in developing and implementing generative AI solutions, TenX has successfully completed over 100 projects across various industries, collaborating with global leaders to streamline operations, facilitate decision-making, and unlock growth potential.

Acknowledged for its impact across diverse sectors, TenX has played a key role in advancing biosecurity within the U.S. food supply chain, optimizing resource management for major global manufacturers, and increasing campaign efficacy and customer retention for banks. Additionally, their work includes summarizing extensive medical data into accessible microlearning formats and enabling Environmental, Social & Governance (ESG) control access for various organizations. These achievements underscore TenX's innovative application of AI and RPA technologies, cementing its reputation as a go-to partner for high-impact digital solutions across multiple industries.

Distinguished by a broad skill set in Generative AI, TenX leverages artificial intelligence to create innovative content and automate complex tasks, driving significant improvements in business efficiency. Their service





offerings encompass advisory and strategy consulting, data analytics for actionable insights, cloud DevOps for scalable infrastructure, custom software development, and automation of repetitive tasks through RPA. With a portfolio of more than 100 completed projects and collaborations with over 50 leading companies, including HSBC, Nissan, and Interloop, TenX has established itself as a trusted technology provider equipped to meet evolving industry demands with precision.

TenX's core services also include generative AI capabilities, enabling clients to leverage large language models for creating text, images, and videos that can enhance digital experiences. Their data analytics services provide in-depth insights through interactive reports, while their cloud DevOps solutions optimize software development life cycles (SDLC) to increase agility. The company's expertise in RPA streamlines processes such as customer onboarding and order processing, significantly reducing operational costs for clients. TenX's tailored approach across its service areas ensures that clients receive solutions that align with their unique business objectives and industry requirements.

With an experienced team of data scientists, developers, and consultants, TenX supports clients in implementing effective digital strategies, from initial advisory and strategic planning to deployment and automation. Their industry-agnostic approach allows them to serve a diverse range of sectors, including finance, biotech, and eCommerce. By delivering customized solutions designed to improve efficiency, boost productivity, and accelerate digital transformation, TenX remains at the forefront of technological innovation, helping businesses globally to adapt to and thrive in the evolving digital landscape.



Transviti

Transviti, a subsidiary of FAMCO Associate and member of the ECOVIS International Network, is a technology firm dedicated to next-generation software development and digital transformation solutions. Focused on services such as cognitive computing, artificial intelligence (AI), data analytics, and hyper-automation, Transviti operates on a global scale, delivering customized software and automation solutions that cater to a wide array of industry needs. By leveraging cutting-edge technology, the company aims to support organizations in building efficient and scalable digital infrastructures, offering end-to-end product development capabilities from initial business case development through deployment across multiple platforms.

The company's achievements include a series of notable projects and recognitions, underscoring its commitment to quality and innovation. Transviti has facilitated the transformation of data analytics for its clients, developed advanced solutions in computer vision for operational enhancement, and deployed hyper-automation strategies to streamline resource-heavy tasks. This dedication has helped establish the firm as a valued partner for organizations looking to modernize their digital operations and achieve long-term technological advancement. Transviti's focus on customized client services has earned them awards and accolades across various sectors, furthering its standing as a reliable provider in software and automation solutions. In addition to its technological capabilities, Transviti's operational model is enhanced by its global reach, with R&D facilities and offshore delivery centers located in technology hubs across the Middle East, UK, and Asia. These facilities support comprehensive service offerings that include full-cycle product development, from initial analysis and requirement gathering to deployment and ongoing maintenance. The firm provides specialized solutions in areas like robotic process automation, machine learning, and sentiment analysis, as well as mobile and web application development for both iOS and Android platforms, leveraging frameworks such as PHP Laravel and ASP.NET Core.

Transviti's unique approach is reflected in its diverse product and service offerings, which integrate emerging technologies into client solutions. Its custom bot development, dashboard solutions, and data visualization tools help clients manage complex datasets, refine workflows, and make data-driven decisions with ease. Partnering with over 50 major enterprises worldwide, including those in finance, manufacturing, and logistics, the company emphasizes security and regulatory compliance, ensuring that its clients' data remains protected through strict security protocols and robust infrastructure.

TutorAI

Tutor AI is a digital learning platform developed to deliver personalized AI-based tutoring tailored for learners of all ages and levels. It offers custom learning pathways designed to support individual goals in school, work, or personal advancement, providing flexible educational resources that adapt to the user's pace and preferences. With a broad array of topics ranging from academic subjects to professional skills, Tutor AI combines interactive modules and guided study sessions to create a tailored and accessible learning experience.

The platform has gained recognition for its innovative approach to education technology, receiving accolades for its adaptability and scope in the online education sector. Tutor AI's design enables students and professionals to seamlessly integrate learning into their daily routines, supported by a combination of advanced AI algorithms and user-friendly features. It has been awarded for its emphasis on accessibility and customization, which allows users from diverse backgrounds to engage in continuous learning without geographic or economic barriers. Tutor AI also partners with educational institutions and tech organizations to expand its resources, contributing to a growing repository of high-quality content and tutoring capabilities.

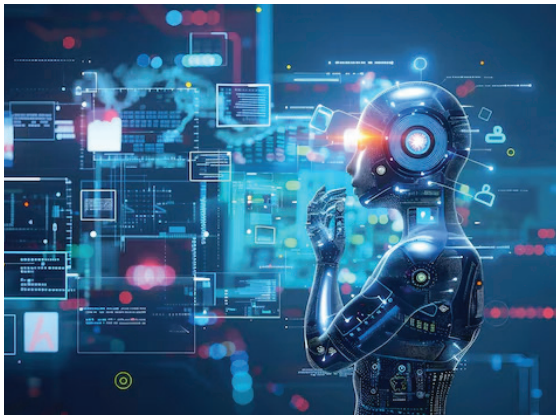


Tutor AI serves over 500,000 users globally, offering thousands of courses that are designed to adapt to each individual's skill level and learning speed. Its interactive modules are structured to build competencies through practical applications, assessments, and adaptive feedback, allowing users to focus on specific skills or explore comprehensive programs. Tutor AI's growth is evidenced by a large and active user base and partnerships with academic institutions, which help it maintain an up-to-date curriculum and provide tailored content that meets evolving educational standards.

The platform's core offerings include personalized AI tutoring, custom course creation, and skill enhancement tools that span a diverse set of topics. These capabilities are enhanced by AI-driven guided study sessions and flexible scheduling, making it a useful tool for those seeking support in specific subjects or comprehensive learning pathways. Tutor AI is also integrated with

Homeworkify, a complementary service that provides additional academic assistance and problem-solving resources. Through these features, Tutor AI not only supports academic achievement but also encourages ongoing professional and personal development across various disciplines.

Tutor AI's emphasis on life-long learning is reflected in its affiliate program, which broadens its reach and allows educators to share resources and insights with users worldwide. Tutor AI's commitment to educational growth is further highlighted by its transparent changelog, showing continuous improvements to its platform in response to user feedback. This approach enables the platform to meet the evolving needs of its global audience while ensuring a robust, adaptable, and engaging learning experience.



baseH Technologies

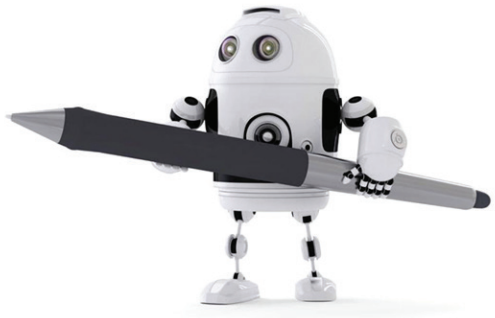
Ainfluencer is a leading DIY marketplace dedicated to connecting businesses with influencers across Instagram and TikTok. It allows brands to create, manage, and scale influencer campaigns within minutes, utilizing a network of over 500,000 influencers from various niches. The platform enables brands to boost brand awareness, drive engagement, and convert audiences through a user-friendly interface that provides businesses with access to a wide array of influencers, from micro to mega, ensuring campaigns reach their ideal target demographics. Ainfluencer's accessible platform and AI-powered search capabilities make it a comprehensive solution for brands seeking to leverage influencer marketing effectively.

With a growing roster of successful campaigns and clients across industries, Ainfluencer has established itself as a trusted name in influencer marketing. The platform has received accolades for its innovative approach, providing robust tools for campaign creation and execution while ensuring secure transactions through its Escrow system. Ainfluencer collaborates with well-known brands and emerging startups alike, facilitating campaigns that enhance brand visibility and engagement. Its approach to influencer marketing, emphasizing authentic engagement and reliable campaign fulfillment, has contributed to its reputation as a go-to platform for businesses of all sizes.

Ainfluencer has supported over 70,000 campaigns and continues to see rapid growth with thousands of new campaign opportunities weekly. Its free-to-use model, with no subscription fees, allows businesses to scale their influencer efforts without financial barriers, while its Escrow system ensures payment security and accountability between brands and influencers. This end-to-end marketplace provides brands with complete control over their campaigns, from discovering influencers and managing content to secure payment processing. The platform's AI-driven tools aid in eliminating risks associated with fake audiences and enhance campaign effectiveness by connecting brands with genuine influencers.

Ainfluencer's primary offerings include content creation services where influencers produce high-quality videos, photos, and product unboxing videos, enabling brands to showcase their products through engaging visuals. The platform's campaign management tools are designed to help businesses build, grow, and maintain brand ambassador programs





organically. With features like flexible campaign creation, real-time tracking, and performance analytics, Ainfluencer streamlines the influencer marketing process for brands, ensuring maximum reach and engagement. Its comprehensive marketplace also includes automated features that support brands in managing their ambassador teams efficiently, enhancing brand loyalty and market reach.

Through its partnerships and achievements, Ainfluencer has become an influential player in the industry, helping brands connect with niche influencers to create impactful campaigns. As a part of its commitment to providing a seamless and scalable experience, Ainfluencer offers resources such as a free eBook, a mobile app for influencers, and dedicated customer support to assist brands in refining their marketing strategies. This holistic approach enables businesses to capitalize on the power of social media influencers, making Ainfluencer a valuable tool for sustainable brand growth in today's digital landscape.

Brickclay

Brickclay

Brickclay is a digital solutions provider that helps businesses harness the power of data-driven strategies and advanced technology to meet their objectives. Since its founding in 2016, the company has become known for aligning IT resources with the strategic aims of organizations across industries like healthcare, finance, and real estate. A Microsoft Gold Partner with expertise in Data Platforms, Data Analytics, Cloud Platforms, and DevOps, Brickclay provides a suite of digital services and specialized analytics to streamline operations and bolster decision-making capabilities. Their approach combines deep technical proficiency with sector-specific insights, positioning them as a versatile partner for enterprises navigating digital transformation.



Certified with ISO 9001:2015, ISO 27001:2013, and ISO 200001:2018, Brickclay upholds high standards of quality and security across its operations. The company's partnerships with major industry players, notably Microsoft, enhance its technological offerings and credibility, particularly in data analytics and cloud solutions. With a team of over 80 professionals, Brickclay has been recognized for its capacity to meet stringent industry benchmarks and deliver solutions tailored to the unique needs of each client. Their ability to consistently exceed client expectations has earned them an esteemed reputation in their sector, reflecting a strong foundation in both innovation and adherence to industry best practices.



Brickclay leverages its team of experts to serve clients in industries such as banking, energy, and supply chain management. The firm integrates a variety of platforms and tools, including Azure Synapse, Power BI, and Tableau, to provide analytics services that turn complex data into meaningful insights. Through services like data analytics, business intelligence, and web design,



Brickclay aids businesses in translating raw data into actionable information, empowering leaders to make evidence-based decisions. The company's robust methodology and commitment to transparency contribute to the creation of lasting client relationships that are grounded in mutual trust and measurable results.

Among Brickclay's specialized products is Quick Analytix, a comprehensive business intelligence platform designed for ease of access and data security, offering integrations with Power BI Embedded and Azure Active Directory. In addition, Brickclay provides tailored solutions like Retail Analytics, which equips businesses with analytics tools to maximize sales, and HR Analytics, focused on monitoring and enhancing employee performance. Other offerings, such as Financial Analytics for CFOs and Operational Excellence tools, cater to specific corporate roles, enabling companies to fine-tune operations through data-backed insights. These solutions address the unique requirements of different departments, helping each achieve strategic goals through technology.

Brickclay continues to innovate in data and AI by supporting clients with emerging technologies, such as big data analytics, machine learning, and cloud integration. The company's comprehensive service portfolio also includes database management, quality assurance, and enterprise data warehousing, addressing the varied needs of modern businesses. By providing clients with advanced analytics, cloud, and data management services, Brickclay not only supports their digital infrastructure but also strengthens their overall operational framework, facilitating sustainable growth and competitive advantage across industries.



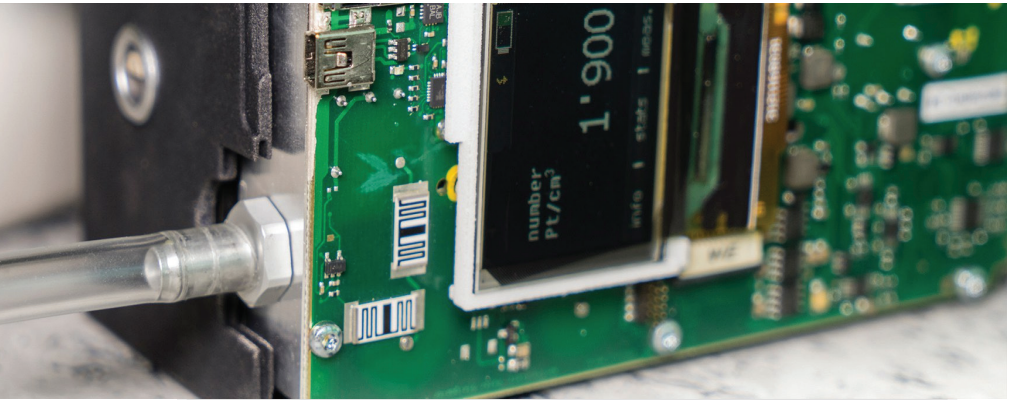
RENZYM

Renzym

Renzym Private Limited is a technology firm focused on delivering high-end engineering and software solutions with specialized services in smartphone application development, wireless communication systems, and embedded systems. Established as a leader in system-level design, Renzym offers expertise in signal processing, FPGA/SoC development, MCU/DSP/GPP-based design, and PCB design. This range of capabilities enables the company to serve as a comprehensive partner for businesses in need of sophisticated technological solutions, particularly in communications and embedded systems. Renzym's commitment to creating advanced technology solutions positions it as a reliable partner for industries looking to leverage innovative products for modern challenges.

Through partnerships with renowned institutions like Lin Scan, CASPR, and King Abdullah University, Renzym has cemented its standing in the technology sector. These collaborations reflect the company's dedication to delivering industry-standard solutions, underscored by certifications that validate its specialized knowledge in areas such as signal processing and embedded systems. Renzym's reputation for excellence is reinforced by a portfolio of successful projects completed for a diverse, international clientele, further emphasizing its role as a preferred provider of complex engineering solutions.

Renzym has introduced a suite of innovative products that includes the RENZYM SDR Framework, HF SDR Transceiver (HST), SDR









Communication Kit (SCK), and the RENZYM Encryption Module (REM). Each of these products exemplifies the company's commitment to pushing technological boundaries, especially in the realm of software-defined radio (SDR) systems and secure communication. The SDR Communication Kit (SCK) and HF SDR Transceiver (HST) are designed to facilitate advanced wireless communication, while the RENZYM SDR Framework serves as a versatile platform for SDR applications. The RENZYM Encryption Module (REM) and Speech Scrambler provide robust security features, catering to industries requiring secure, high-performance communication systems.

In addition to product offerings, Renzym provides a comprehensive range of engineering services. These include signal processing algorithm development, FPGA/SOC-based design, and embedded system engineering. The company also delivers PCB design services and software development, ensuring end-to-end product support from conceptualization through to deployment. Renzym's expertise in MIMO OFDM Testbeds, Phased Array Radar, and Non-Destructive Testing highlights its proficiency in specialized applications, making it a sought-after provider for clients seeking tailored, high-caliber engineering solutions across multiple industries.

Renzym's focus on continual innovation and its commitment to client needs drive its work in developing and supporting advanced technological infrastructure. By offering services that cover everything from high-speed communication modules to secure embedded systems, Renzym not only supports the operational needs of its clients but also contributes to advancements in areas such as smart intelligence and pipeline inspection. As it continues to partner with leading academic and industrial organizations, Renzym demonstrates its role as an influential technology provider, pushing forward the possibilities of secure and efficient engineering solutions.

Expanding Possibilities
SYMTERA
TECHNOLOGIES

Symtera Technologies

Symtera Technologies Private Limited is a comprehensive IT solutions company, part of a multinational group headquartered in the USA, that provides a range of technology services and products to a global clientele. Established in 2019, Symtera has quickly expanded its footprint in Pakistan, leveraging the expertise of an international team to deliver specialized services in information and communications technology, artificial intelligence, business intelligence, and data center management. With a service portfolio that includes cloud hosting, digital identification services, eCommerce platforms, SMS notifications, and custom software solutions, Symtera addresses the evolving needs of industries such as healthcare, education, finance, and infrastructure.

Symtera's dedication to quality is underscored by its ISO 9001:2015 and ISO/IEC 27001:2013 certifications, recognizing its commitment to maintaining high standards in quality management and information security. Notably, Symtera is the only SOPHOS Emerging Partner of 2021, a testament to its capabilities in cybersecurity solutions. These certifications and accolades reflect the company's adherence to stringent industry standards, further strengthened by an advisory board of seasoned international consultants and engineers who support Symtera's mission to provide reliable and innovative IT services.

The company has developed a range of specialized products tailored to industry-specific needs. Symtera's





Education ERP is a management system designed to streamline operations within educational institutions, while eTajir provides eCommerce businesses with a robust platform for online transactions and customer management. The SymScan and SymPay solutions offer secure systems for inventory tracking and digital payments, catering to retail and financial service sectors. Additionally, Symtera's Job Management System, Patient Management System, and Assets Management System support efficient operations in human resources, healthcare, and asset management, respectively, illustrating the company's ability to design practical, scalable solutions.

Since its founding, Symtera has expanded its reach to serve clients in multiple countries, blending local insight with global resources to offer IT solutions that are both cost-effective and timely. The company's diverse team of professionals and commitment to excellence have enabled it to form enduring partnerships with clients, who rely on Symtera's robust platforms and infrastructures. With services that span cloud computing, IT infrastructure, SEO/SEM, and digital marketing, Symtera plays a critical role in supporting businesses seeking to enhance their digital capabilities and operational efficiency.

Symtera's values—commitment, integrity, teamwork, and innovation—define its approach to business. By using local resources to power technological advancements in sectors like education, finance, and infrastructure, the company supports clients in achieving their digital transformation goals. As it continues to evolve, Symtera remains focused on expanding its service offerings and refining its products to meet the dynamic needs of a global market.

Nixense Vixion

Nixense Vision is an AI consultancy firm specializing in computer vision, machine vision, and natural language processing. The company offers AI-driven solutions to industries including healthcare, manufacturing, and robotics, focusing on transforming visual and textual data into actionable insights. By applying advanced deep learning and machine learning techniques, Nixense Vision provides customized services aimed at improving efficiency, automation, and decision-making across various sectors. The company works closely with its clients, offering tailored solutions that enhance product development and address specific business needs.

One of Nixense Vision's core competencies is its expertise in computer vision. The company helps businesses leverage visual data for applications such as object detection, pattern recognition, and visual content classification. These solutions are used in a variety of fields, from security systems to advanced manufacturing processes. Nixense Vision also delivers machine vision applications, optimizing visual processes within industrial settings like packaging inspection, crop yield estimation, and quality control in medical devices. These solutions are designed to improve production accuracy, reduce errors, and enable real-time decision-making.

In addition to its visual-based technologies, Nixense Vision provides services in natural language processing (NLP), assisting organizations in extracting meaningful information from raw textual data. The company's NLP solutions include sentiment analysis, speech recognition, and document categorization, all aimed at enhancing customer interactions and business strategies. Predictive modeling is another key service, enabling businesses to forecast future trends based on historical data, thus maintaining a competitive edge.

Nixense Vision collaborates with high-profile clients such as Bonsai, Athelas, and Beet Robotics, offering solutions that span industries from healthcare to automation. The company's work in machine vision has made notable contributions in sectors like agricultural technology and robotics, while its predictive modeling services assist organizations in planning and improving operational efficiency. The firm is recognized for its innovative approach, which combines expertise in AI with deep industry knowledge.

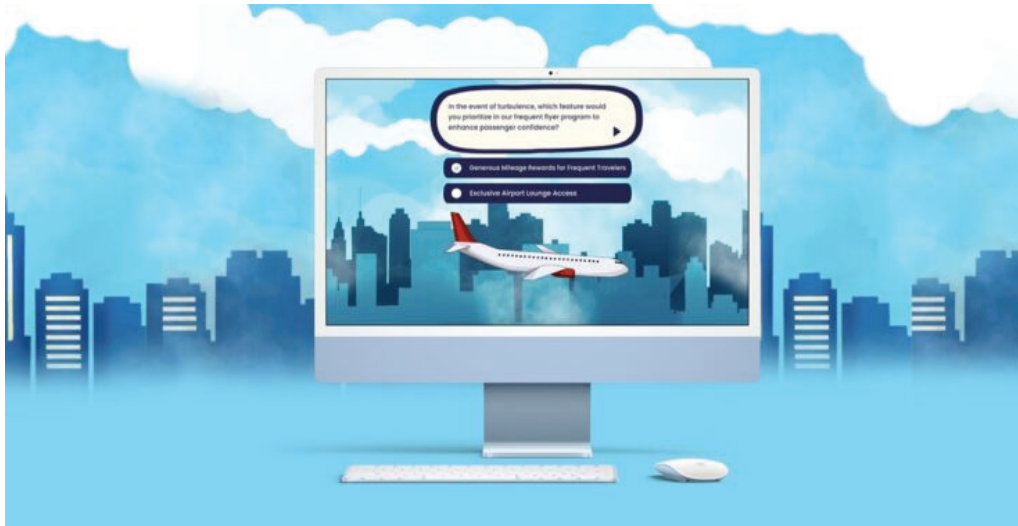
With a solid track record in AI research and development, Nixense Vision continues to make strides in applying its technologies to real-world challenges. The company utilizes state-of-the-art tools and platforms, including TensorFlow, PyTorch, and OpenCV, to ensure the highest quality in its AI solutions.

WonderTech

WonderTech is a prominent digital solutions provider focused on leveraging advanced technologies to drive digital transformation for enterprises. With services spanning augmented reality (AR), virtual reality (VR), artificial intelligence (AI), and Web 3.0, the company develops customized solutions to enhance user engagement, streamline operations, and promote growth. From digital marketing to enterprise training, WonderTech integrates technology to meet the specific needs of diverse industries, providing comprehensive tools that empower businesses to thrive in an evolving digital landscape.

With over a decade in operation, WonderTech serves more than 100 clients across 50 industries, contributing a total of 8,000 work hours to various projects. A notable partnership with Bain and Company Consulting Singapore resulted in the development of "Bain City," an immersive experience aimed at strengthening customer engagement. Other prominent projects include the “VR Escape Room” for HR training, which provides interactive team-building exercises, and “Dynamic Loreal AR Filters,” a social media tool designed to enhance product engagement for beauty brand L’Oreal. These projects reflect WonderTech’s commitment to creating solutions that combine immersive experiences with strategic business applications.

WonderTech’s diverse product portfolio underscores its capabilities in both enterprise and consumer-focused applications. The "ELN Learning Management System" supports corporate training through interactive modules, while "Katateeb," an e-learning app, facilitates remote learning for educational institutions. "Deliver It Right," a gamified logistics tool, enhances operations for companies in the delivery sector. For the retail and entertainment industry,





WonderTech developed "OnederLand," an AR experience for Lucky One Mall, transforming traditional shopping into an interactive adventure. The company's focus on tailor-made products positions it as a versatile solutions provider for businesses across sectors like retail, education, and corporate training.

Throughout its growth, WonderTech has established itself as a reliable partner to leading companies worldwide, forming partnerships with firms such as Maybelline, HBL, and Reckitt. The company's work has garnered recognition, including numerous industry awards and accolades for innovation in AR and VR applications. By collaborating with organizations to integrate technology into their operations, WonderTech supports clients in reaching new audiences and improving engagement through targeted digital experiences.

WonderTech's approach is grounded in its values of collaboration, innovation, and adaptability. With a strong foundation in emerging technologies, WonderTech continues to expand its service offerings, focusing on creating custom-built solutions that drive business objectives. Its expertise in digital engagement, operational automation, and strategic marketing makes WonderTech a valuable partner for organizations seeking to leverage technology in meaningful and transformative ways.

Edraak Systems

Edraak is a technology company dedicated to enhancing industrial processes through the strategic use of data and automation. Focusing primarily on the manufacturing sector, Edraak integrates AI, machine learning, IoT, and computer vision to provide solutions that improve operational efficiency, enable precise quality control, and streamline workflows. The company's systems capture critical machine data in real time, which provides organizations with actionable insights to optimize decision-making processes, boost production efficiency, and achieve sustainability goals.



Among Edraak's flagship products is the Fabric Quality Control system, which identifies fabric faults and automates the inspection process. This system feeds data into an AI-driven optimization engine, which generates efficient cutting plans that help reduce waste and minimize the production of B-grade materials. Another core solution, the Real-Time Width Monitoring system, facilitates accurate fabric width measurements, which are essential for quality control and production consistency. This automation minimizes manual effort, reduces error rates, and enables manufacturers to increase output, effectively adding a day's worth of production each month.

Edraak's production tracking solution for the textile and apparel industries uses QR, RFID, and IoT technology to deliver real-time visibility on the production floor. This system tracks production status, calculates wages, and supports accurate planning, which addresses common challenges in garment manufacturing, such as tracking progress across multiple operations and styles. The system's data analytics component allows for continuous improvement, giving managers the ability to analyze production data and adjust workflows to enhance productivity. The company's Eagle Eye software further assists manufacturers by providing business intelligence insights that streamline quality assurance processes

through real-time analytics and data-driven reporting.

With a roster of high-profile clients, including Nishat, Master Textile, and Sapphire, Edraak has established itself as a trusted partner in the textile industry. The company's collaborative approach has led to successful partnerships with leading textile manufacturers to implement AI-driven solutions that directly improve production efficiency and sustainability metrics. Through its partnerships, Edraak has played a pivotal role in advancing Industry 4.0 practices within the textile sector, integrating cutting-edge technologies that enable manufacturers to meet global quality standards.

Edraak's innovative solutions and commitment to industrial efficiency have earned it industry accolades and recognition. With a focus on sustainable, data-centric manufacturing, the company continues to push the boundaries of industrial optimization, helping clients streamline operations and stay competitive in an increasingly digital and automated world.

FIVERIVERS TECHNOLOGIES

FiveRivers Technology

FiveRivers Technologies is a technology company offering specialized AI, Web3, and machine learning services, focusing on optimizing enterprise systems through R&D and innovative software solutions. With more than two decades of experience, the company has delivered over 500 custom solutions worldwide, leveraging data science and AI to empower clients in diverse industries. Its leadership team, known for global expertise, ensures every project meets stringent quality, time, and communication standards. Through a comprehensive service portfolio, FiveRivers Technologies provides strategic technology support, helping organizations enhance decision-making and drive their digital transformation goals.



Among FiveRivers Technologies' primary offerings is its Artificial Intelligence service, which encompasses generative AI, data augmentation, and analytics to enable intelligent automation and real-time insights across industries. The company's Industrial IoT solutions, integrated with advanced analytics, provide enterprises with tools to monitor equipment and optimize manufacturing processes. Additionally, FiveRivers develops tailored machine learning models that allow clients to process large datasets efficiently, enabling precise and data-driven decision-making. FiveRivers also delivers innovative computer vision and AR solutions aimed at enhancing athlete performance through data capture, model development, and app integration, showcasing the company's strength in deploying advanced, domain-specific AI applications.

In the blockchain space, FiveRivers Technologies is recognized for its Web3 and blockchain development services, including tokenization, smart contracts, and enterprise blockchain applications. The firm recently worked on an integrated mapping project utilizing blockchain to gather crowd-sourced data for high-resolution maps, catering to sectors that demand decentralized and secure data management. FiveRivers also engages with projects focused on developing blockchain solutions for the drone industry, helping companies in sectors with stringent security needs manage airspace monitoring through distributed ledger technology.

FiveRivers' expertise extends to augmented reality (AR), virtual reality (VR), and mixed reality (MR), where it creates immersive simulations, digital twins, and VR environments for enterprise applications. The company's AR/VR projects include virtual reality simulations for training environments and advanced digital twin models for industrial setups, helping clients train their workforce and optimize asset management. The company also provides customized mobile and web solutions, developing and deploying apps that meet specific business needs and align with operational goals, from backend architecture to DevOps support.

Trusted by high-profile clients such as Ballogy, Indie Game Studio, and major drone and data ecosystem companies, FiveRivers Technologies has earned a reputation for being adaptable and responsive to evolving industry requirements. The company's commitment to collaboration and client-centered project execution has earned accolades and positive feedback from partners, as evidenced by testimonials highlighting FiveRivers' ability to pivot and innovate with agility. Through a robust portfolio and dedication to innovation, FiveRivers Technologies continues to solidify its position as a leader in delivering customized, AI-driven solutions across multiple industries.



Maanz AI

Maanz AI specializes in delivering AI-driven technology solutions across a wide range of sectors, including healthcare, automotive, and cybersecurity. With over 500 experts and two decades in the industry, Maanz AI provides tailored services in artificial intelligence, cloud computing, embedded systems, and application development, focusing on innovation, scalability, and client-centric solutions. Its projects and technology capabilities are enhanced by certifications from regulatory and industry bodies such as PSEB, ICCI, and GPCCI, allowing the company to maintain high standards across various regulated markets. Maanz AI operates from development centers in Pakistan and an office in the United States, supporting its global client base with comprehensive technical services and infrastructure.

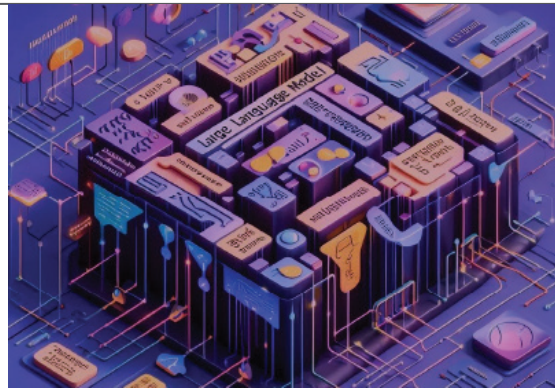
One of Maanz AI's core offerings is its AI and machine learning service, which includes capabilities in programming, natural language processing, and computer vision. The company's use of large language models supports applications in sentiment analysis, text generation, and automated customer service solutions. With a strong focus on custom development, Maanz AI designs intelligent systems that meet the complex language and data needs of diverse industries. Additionally, Maanz AI's annotation and tagging



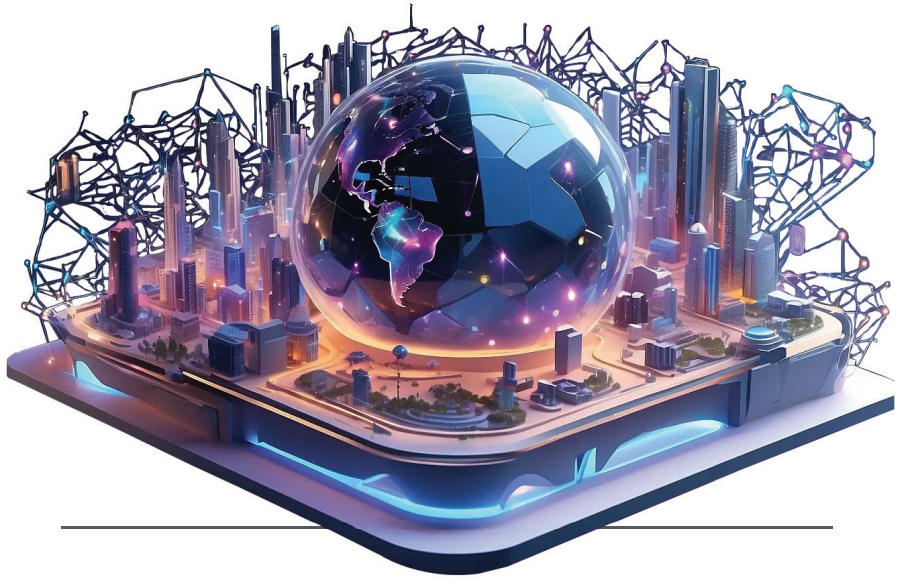
services provide accurate and efficient labeling for LiDAR data, enhancing projects in fields like autonomous driving, where detailed 3D models and object classification are critical.

In cloud computing, Maanz AI offers cross-cloud solutions across Amazon Web Services, Microsoft Azure, and Google Cloud Platform, tailoring infrastructure and security solutions to client needs. Its DevOps expertise enables scalable cloud deployments, ensuring optimal performance and security. Maanz AI's cybersecurity services further strengthen client digital resilience, using network security tools like firewalls, intrusion detection systems, and VPNs. These measures provide robust protection for client data and infrastructure, meeting the demands of today's cybersecurity landscape.

The company's embedded systems service specializes in sensor integration, security, and programming, particularly in automotive industry applications through the AUTOSAR framework. This expertise supports seamless integration within automotive environments, ensuring reliable communication and functionality. Additionally, Maanz AI's simulation services create immersive virtual reality (VR) environments for interactive training, particularly valuable in fields requiring realistic, sensory-rich scenarios, such as medical and industrial training applications. In healthcare, Maanz AI's digital health solutions support virtual healthcare services, improving patient access and care management.



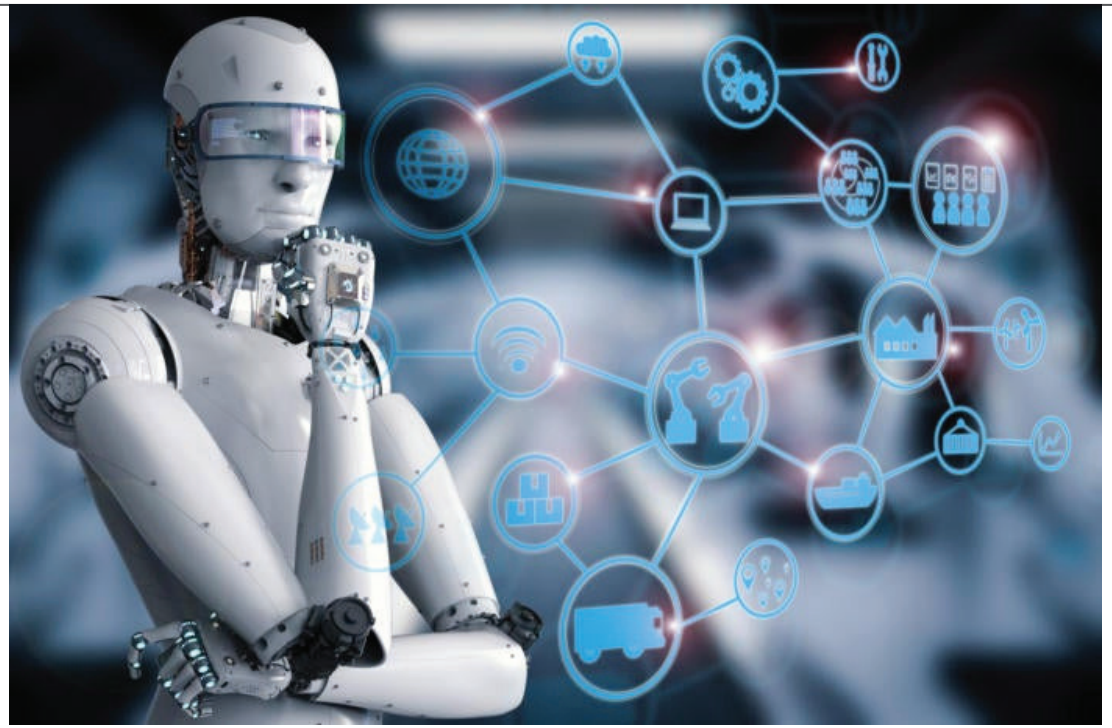
With a client portfolio that includes Tier 1 firms and OEMs, Maanz AI's projects have amassed impressive data points, including the annotation of over 70 million images and 1.8 billion labeling points. The company's reputation for delivering precise and innovative solutions has earned it notable partnerships and client testimonials, which recognize Maanz AI's role in advancing technical capabilities and delivering impactful technology solutions across industries.



Folio3

Folio3 AI is a global provider of AI solutions with over 15 years of experience in delivering end-to-end AI services to enterprises, from startups to Fortune 500 companies. The company has a notable presence across North America, Europe, Asia, and Australia, positioning itself as a versatile leader in AI-powered solutions. Folio3 specializes in machine learning, natural language processing (NLP), and computer vision, offering clients a robust suite of services that address automation, data analysis, and AI-driven business strategies. Their pre-built AI models and custom integrations are designed to meet industry-specific needs, creating tailored solutions that drive digital transformation and efficiency.

The company's diverse AI product portfolio includes solutions like predictive analytics, large language models, generative AI, and rapid prototyping. Folio3's predictive analytics services empower businesses to make data-driven decisions by forecasting trends and outcomes through data analysis and pattern recognition. Their generative AI technology enables organizations to create engaging customer experiences and automate workflows. Folio3 also provides specialized large language models that enhance automation and reduce operational costs, optimizing internal processes and customer interactions across



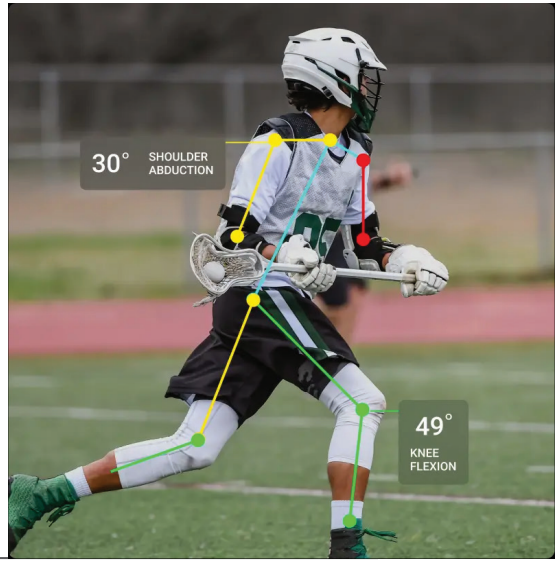
sectors. Additionally, Folio3's rapid prototyping service allows companies to develop and deploy AI-driven prototypes in weeks, accelerating time-to-market and product testing cycles.

Folio3 has developed a range of proprietary products such as "Converse Smartly" and "ChatBuddy Pro," each designed to streamline different business functions. Converse Smartly is an AI-based transcription tool that converts speech to text while delivering insights into keywords, speaker differentiation, and sentiment analysis, making it particularly useful for industries requiring detailed documentation and analysis of meetings or customer interactions.

ChatBuddy Pro is an advanced chatbot solution that automates customer service, providing an intelligent assistant capable of custom data integration and real-time user engagement, benefiting businesses looking to enhance their customer support without increasing personnel costs.

The company has partnered with numerous clients across a variety of sectors, including healthcare, transportation, e-commerce, and agriculture. Folio3's solutions are widely used in industries such as manufacturing, telecom, education, and logistics, where AI-driven applications can improve operational efficiency and enhance customer experiences. Their commitment to quality and adaptability has earned them partnerships with major organizations worldwide, and they have successfully completed over 150 projects, making an impact in sectors where digital transformation is key to competitiveness.

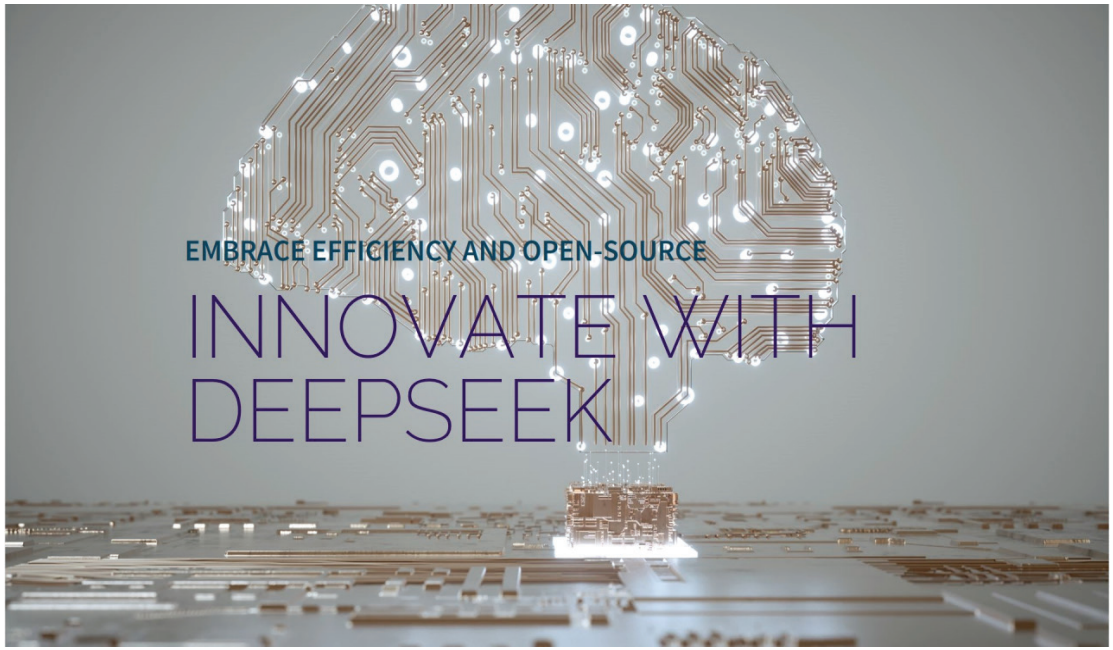
Folio3 has also been recognized for its innovation and contribution to the AI industry. With a skilled team of over 30 full-stack AI developers, Folio3 continues to push the boundaries of AI, focusing on scalable, impactful technologies that cater to the unique needs of their clients. The company maintains a strong reputation for delivering data-driven insights and AI-powered solutions that help businesses streamline their processes, make informed decisions, and achieve operational goals in an increasingly competitive digital landscape.



Rewisdom AI

Rewisdom AI is a technology consulting firm specializing in AI-powered solutions, partnering with clients to develop customized, enterprise-grade AI products that enhance decision-making, operational efficiency, and product innovation. Founded by Zubair Ahmed, a seasoned AI engineer with over 15 years in the industry, Rewisdom AI leverages expertise in computer vision, natural language processing, and advanced analytics to address complex business challenges across various sectors. The company provides an end-to-end AI development process that includes strategy consulting, rapid prototyping, and full-scale AI product integration, supporting businesses from initial concept to deployment and refinement of AI models.

Rewisdom AI offers a range of services tailored to modern business needs, including AI strategy development, where they help clients assess opportunities for AI integration to boost competitive advantage. They also specialize in quick prototyping, allowing businesses to test ideas with AI-driven solutions within weeks. Their AI product development services facilitate the creation of fully integrated systems that adapt to business workflows, enabling clients to achieve scalable results. Additionally, Rewisdom's advanced data analytics services uncover



actionable insights from large datasets, optimizing business processes and providing predictive insights for strategic planning.

Among Rewisdom AI's products, the "Occupancy Monitoring" solution uses computer vision to analyze real-time occupancy levels in retail environments, enabling efficient space management. In addition, their "Text-to-Speech" and "Speech-to-Text" systems assist businesses with automated voice and text interactions, valuable for customer service and content generation. These solutions are powered by Rewisdom's proprietary AI models, customized for each client's unique needs and compatible with isolated edge devices, such as Nvidia Jetson Nano, for efficient, on-site processing.

Rewisdom AI has worked with clients in sectors such as defense, security, retail, and healthcare, building AI models for specific use cases, including human detection for security applications. A notable project for a Silicon Valley defense startup involved developing deep learning models for real-time situational awareness, which contributed to the client's successful capital raise of seven figures. This project required developing a multi-model stack to operate on limited-edge devices and provided end users with essential insights, supporting critical operations in security and monitoring.

Rewisdom AI is a member of Nvidia's startup program, reinforcing its alignment with cutting-edge AI technology and fostering partnerships that expand its capabilities. With a strong commitment to research and development, Rewisdom AI continues to advance in the AI industry, providing clients with tailored, state-of-the-art AI solutions. Their services are recognized worldwide, with clients benefiting from their comprehensive, scalable solutions designed to meet evolving industry demands.



SmartNeura

SmartNeura focuses on enhancing quality of life through digital infrastructure in sectors such as energy, utilities, and government, aiming to foster sustainable urban living environments. With a mission to create smart cities, buildings, and homes, SmartNeura addresses urban challenges like pollution, congestion, and efficient resource management. The company integrates Artificial Intelligence, the Internet of Things (IoT), cloud computing, and blockchain technology to drive innovative solutions across these domains. This approach aligns with global urbanization trends, especially as 55% of the world's population currently lives in urban areas, a figure expected to rise significantly by 2050.

In the realm of smart cities, SmartNeura provides services and products aimed at increasing urban efficiency and sustainability. Their offerings include smart street lighting, transportation, security, and environmental monitoring. SmartNeura collaborates with local governments to implement digital governance platforms, improving public service delivery and decision-making. The company's Smart Governance solutions enhance urban administration by enabling data-driven decision-making, automating services, and supporting mobile access for municipal staff. These solutions help cities manage resources effectively, reduce costs, and create sustainable growth pathways.

SmartNeura also offers solutions for smart buildings and smart homes, focusing on energy management, occupancy monitoring, and safety systems. Their smart building technology leverages IoT sensors and AI to monitor and optimize energy usage, ensuring compliance with environmental standards while reducing operational costs. In residential applications, their smart home systems provide users with real-time insights into energy consumption and security, encouraging efficient resource use and enhancing home safety. These solutions are built to integrate



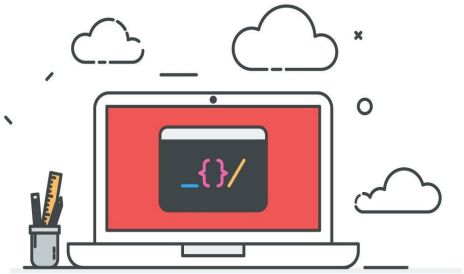


seamlessly with various ecosystems, ensuring that both residential and commercial users can access the benefits of a fully connected environment.

In addition to their core services, SmartNeura extends its expertise in digital marketing and app development, providing businesses with solutions to build and maintain an online presence. Their digital marketing suite covers search engine optimization, content marketing, and social media strategy, while their web and app development services ensure compatibility across devices and platforms. These services are particularly beneficial to businesses within SmartNeura's target sectors, allowing them to enhance user engagement and streamline operations through custom-built digital tools.

SmartNeura has established partnerships with organizations like Nvidia, where they leverage advanced computing technologies to optimize their AI models. This partnership enables SmartNeura to deliver high-performance, scalable solutions for their clients. Based in Melbourne, Australia, the company serves clients globally and continues to expand its influence in digital transformation. Through a strong focus on sustainable development, SmartNeura plays a pivotal role in shaping resilient urban infrastructure that meets the needs of modern, connected societies.

Code Junkie



CodeJunkie is a software production agency with over 20 years of experience, specializing in tailored digital solutions for a diverse global clientele. The company delivers a broad spectrum of services, including web and mobile app development, UX/UI design, product strategy, artificial intelligence, and blockchain development. With a reputation for precision and usability, CodeJunkie applies a customer-centric approach to each project, aiming to ensure quality and client satisfaction. Their diverse portfolio spans industries such as social media, logistics, and retail, demonstrating their adaptability and commitment to addressing varied market needs.

Recognized for its high standards, CodeJunkie has earned numerous accolades, including a Clutch award in 2019 as a Top Developer and a subsequent honor in 2020 as one of the Top B2B Companies in the U.S. These recognitions highlight the company's consistent quality and excellence in delivering robust digital solutions. The agency's commitment to quality is underscored by its rigorous testing and project management processes, which have garnered it a strong reputation within the software development industry.

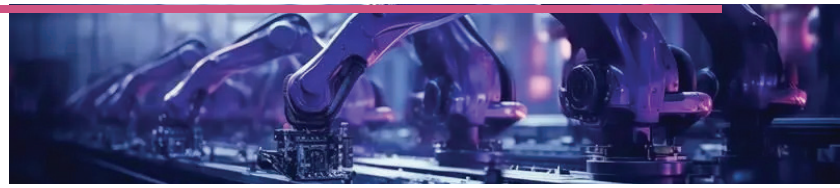


CodeJunkie has achieved substantial growth, expanding its team threefold in recent years to support an increasing client roster, now over 20 strong. Their project management methodology emphasizes clear communication, timely delivery, and scope management, with daily updates provided to clients to ensure alignment and transparency. This structured approach enables CodeJunkie to execute projects efficiently while maintaining high standards in every phase, from initial consultation to post-launch support.

The company's primary service offerings include machine learning, computer vision, natural language processing, data analytics, game development, and e-commerce solutions. In artificial intelligence and machine learning, CodeJunkie develops algorithms that enhance predictive accuracy and automate decision-making for clients, while in e-commerce, they create tailored platforms optimized for user experience and conversion. Additionally, their AR/VR solutions help clients deliver immersive experiences in fields like retail and education, expanding digital engagement possibilities.

Headquartered in Delaware, CodeJunkie collaborates with technology partners to stay at the forefront of digital innovation, enabling the agency to integrate cutting-edge technology into its services. By leveraging advanced tools and methodologies, CodeJunkie ensures that its software solutions not only meet but often exceed contemporary digital standards. Through a blend of technical expertise and a commitment to client-centered development, CodeJunkie continues to play a vital role in delivering impactful, future-ready digital solutions.

Tekrowe



Tekrowe Digital is a longstanding leader in the field of technological and business innovation, with over 50 years of experience in full product lifecycle management. The company delivers software solutions that address a broad range of business needs, from development to deployment. Known for its focus on scalability, security, and user experience, Tekrowe provides end-to-end product development services, allowing clients to adapt to evolving market demands. Tekrowe's agile methodologies enable rapid response to industry shifts, making the company a preferred partner for businesses seeking sustained competitive advantage.

In addition to its core development services, Tekrowe Digital has been recognized with industry accolades that reflect its influence and expertise. The company has been acknowledged by organizations like Clutch, which named it a top software developer, and by other industry groups for its contributions to technology and business solutions. Tekrowe's commitment to excellence has also attracted a global clientele, which includes partnerships with businesses across the United States, Europe, and Asia. This reputation is bolstered by client testimonials highlighting Tekrowe's technical expertise and dedication to client satisfaction.

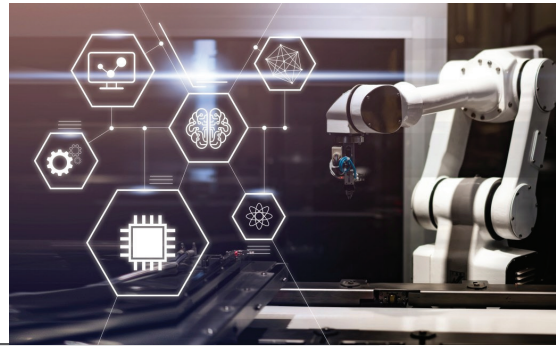
Tekrowe offers a range of services across various domains, such as full-stack development, mobile application development, data engineering, cloud engineering, and DevOps. Its full-stack development



service provides comprehensive solutions that cover both front-end and back-end aspects of digital projects, from responsive design to back-end architecture. In the mobile development sector, Tekrowe specializes in crafting user-centric applications for iOS and Android, integrating intuitive design and high-performance features. The data engineering team creates and maintains robust data pipelines and warehouses, allowing enterprises to make data-driven decisions, while its cloud engineering services help businesses leverage cloud platforms to enhance scalability and efficiency.

As part of its AI and data analytics offerings, Tekrowe applies advanced tools to generate actionable insights from data, aiding in strategic decision-making. The company's user experience (UX) and design team develop interfaces that prioritize usability and accessibility, ensuring digital products are both functional and aesthetically appealing. Tekrowe's digital marketing services include strategies for search engine optimization, pay-per-click advertising, and social media engagement, allowing clients to reach and engage target audiences effectively.

Led by a team with deep expertise in engineering and product development, Tekrowe continues to expand its technological capabilities, positioning itself as a comprehensive solutions provider for digital transformation. With its extensive experience and broad service portfolio, Tekrowe remains committed to driving progress through innovative technology solutions tailored to meet the unique needs of each client.



Unifonic

Unifonic, a Software-as-a-Service (SaaS) company headquartered in the Middle East, specializes in customer engagement through an AI-powered omnichannel platform. By streamlining communications across SMS, voice, WhatsApp, and web channels, Unifonic allows businesses to engage with customers through a unified system that increases efficiency and reduces operational costs. Since its founding in 2006, the company has built a reputation for scalable communication solutions that serve a wide range of industries, including banking, healthcare, retail, logistics, and government sectors. Unifonic's platform supports global reach, facilitating over 25 billion messages annually to more than 160 million recipients across 160 countries, powered by a team of over 400 professionals stationed in six countries.

Unifonic's growth is reflected in its strategic acquisitions and partnerships, which have broadened its service offerings and market presence. In 2022, the acquisition of Sestek enhanced Unifonic's capabilities in AI-driven voice solutions, further positioning it as a leader in conversational AI. Its participation in events like LEAP 2024 showcased innovative advancements such as customer journey automation. Unifonic's collaboration with SPL, the Saudi postal service, is a notable



success, demonstrating a 50% reduction in call center wait times and a 75% cost savings through a WhatsApp-based digital assistant. In 2024, Unifonic partnered with MoEngage to improve customer engagement across the Middle East, leveraging AI to optimize customer experiences. Additionally, its partnership with InspireU from stc in 2023 supports Saudi entrepreneurship and regional technology innovation.

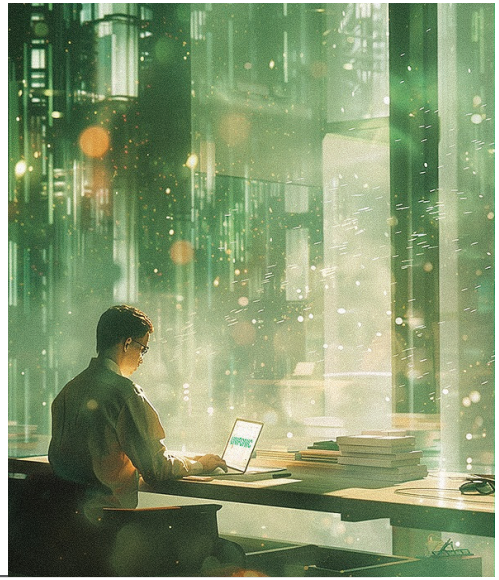
The platform's technology supports diverse communication channels, including SMS, WhatsApp, Webchat, Messenger, Push Notifications, and



Voice. Unifonic also provides specialized solutions, including pre-built templates for common use cases like one-time passwords (OTPs) and chatbots, which streamline customer engagement across sectors. With over 100 native integrations, including Salesforce, Hubspot, and Shopify, Unifonic enables seamless connectivity with existing enterprise systems, enhancing productivity for departments such as marketing, IT operations, and customer support.

Unifonic's product portfolio includes an SMS solution that achieves a 90% read rate within three minutes, ideal for time-sensitive notifications. WhatsApp integration supports real-time interaction for customer service and order updates, while Webchat and Messenger offer scalable, one-on-one engagement tools. Push Notifications drive in-app activity with targeted alerts, and the Voice service facilitates personalized voice interactions globally. Each channel is optimized to enhance customer touchpoints and elevate overall brand communication effectiveness.

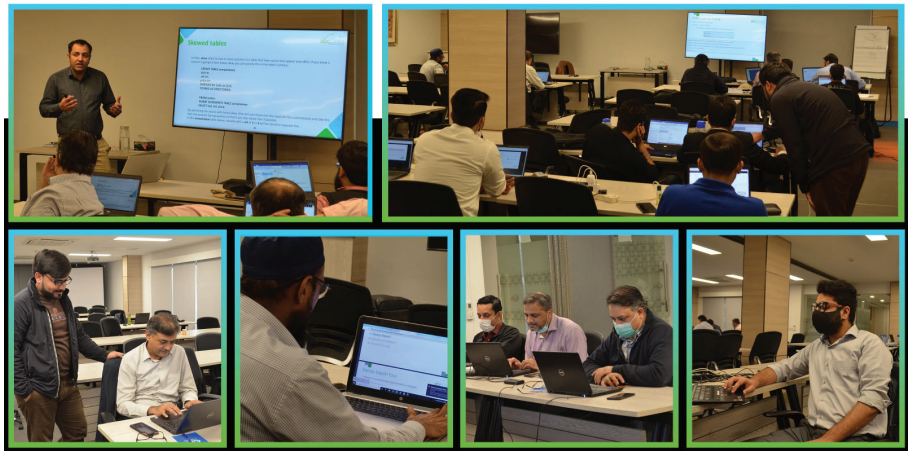
Committed to technological advancement and customer-centric solutions, Unifonic continues to support over 5,000 clients worldwide, from large enterprises to growing businesses. Its solutions improve operational efficiency, customer satisfaction, and engagement metrics, making Unifonic an essential partner in the digital transformation of global and regional customer interactions.



ABC Data

ABC Data, a data solutions company with a strong focus on AI-driven analytics, offers businesses advanced tools to optimize operations and make informed decisions. The company leverages machine learning and data-centric technologies to derive actionable insights, empowering clients across diverse sectors with data strategies tailored to boost operational efficiency and drive growth.

With over 25 years of combined experience, including expertise from former Teradata professionals, ABC Data is recognized for its contributions to data solutions on a global scale. Their industry presence has been bolstered by several notable partnerships, such as collaborations with large enterprises in telecommunications and finance.



ABC Data's flagship software, Sarmaaya, enables clients to track investments and performance in real time, delivering data clarity through user-friendly technical charting and portfolio management tools. This focus on AI and machine learning has made ABC Data a key player in transforming data management for clients throughout Europe, the Middle East, and Africa.

ABC Data's training programs, which cover advanced topics like Hadoop and Spark machine learning, position them as a leader in technical upskilling, further enhancing their role in the data solutions sector. Their achievements reflect a deep commitment to client success through tailored solutions and technical excellence.

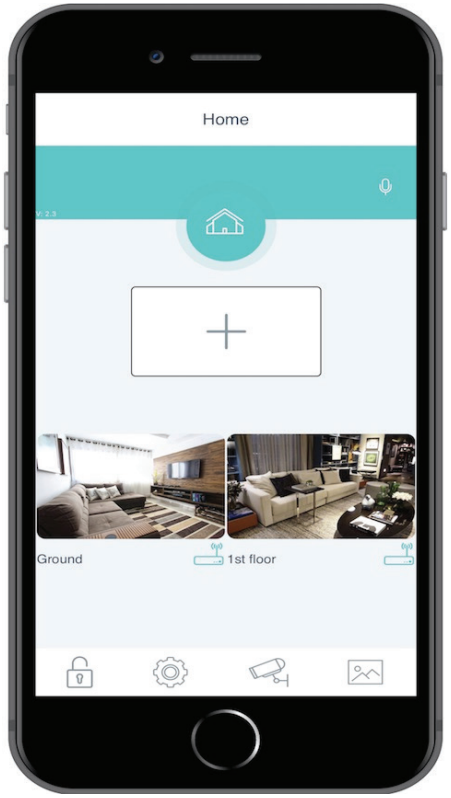
ABC Data's portfolio includes a range of data-centric technologies, from relational database management and cloud-native DevOps to streaming solutions. The company's Sarmaaya platform, a standout offering, provides a complete suite of investment tracking features, allowing users to monitor portfolios, view automated corporate actions, and access technical charting tools. This solution is complemented by DataSpeck, a service offering data ingestion, visualization, and analysis, which helps organizations manage complex data workflows with ease. The company's expertise extends to business intelligence and data warehousing, supporting clients' strategic decision-making needs with customized reporting and analytics.

In addition to Sarmaaya and DataSpeck, ABC Data offers managed services and consultancy in data migrations, cloud-based solutions, and advanced analytics. Their team provides on-premises and cloud-based data warehousing implementations, optimized to fit client needs and budgetary requirements. ABC Data's services also include performance tuning and system upgrades, ensuring clients get the most from their existing resources before scaling further. Their commitment to data excellence is further supported by a low-code development tool that aids in the creation of AI-powered chatbots and automated workflows, assisting organizations in elevating customer experience and operational efficiency.

ABC Data's ability to consistently deliver high-value solutions has attracted an impressive clientele, including leading firms such as Jazz, Pakistan's largest telecom provider. Their robust partnerships and client success stories demonstrate ABC Data's role in supporting digital transformation initiatives across sectors. With a focus on scalable, data-driven strategies, ABC Data remains committed to advancing its clients' goals through innovative technologies and data management solutions that enhance competitive advantage in a fast-paced, data-rich world.



D2VISION
MULTIMEDIA APP EXPERTS
D2Vision



combine clips, add music, and export final projects directly from mobile devices. This expertise is backed by a team experienced in handling intensive computing and multimedia demands, positioning D2Vision as a reliable partner for businesses requiring innovative app development with complex technological features.

The company's portfolio also includes smart home solutions, with STS-Control providing customized home automation functionalities that enable remote management of lighting, appliances, and security systems. D2Vision's commitment to supporting the latest technologies in IoT and automation enhances user convenience and operational control. This focus on integrating IoT with user-friendly app interfaces has made D2Vision a go-to provider for both consumer-focused and enterprise-level IoT solutions.

D2Vision's clients range from individual innovators to large organizations, drawn to the company's commitment to agile project management and cost-effective development cycles. With a client roster that includes leading figures in media and technology, D2Vision consistently delivers robust solutions aligned with its clients' goals. The company also offers ongoing support, quality assurance, and transparent communication, ensuring that projects are not only delivered on time but continue to meet evolving user demands in a competitive digital landscape.

Alphabase

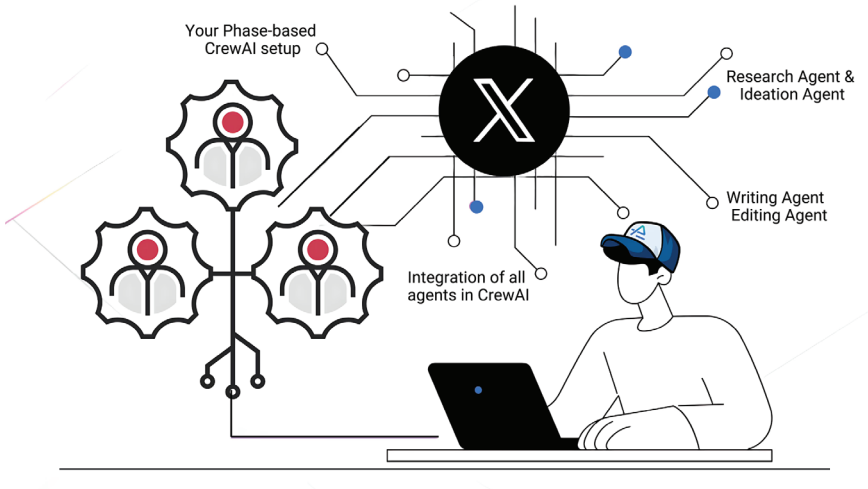
Alphabase is a software development agency specializing in custom AI and software solutions aimed at helping businesses enhance efficiency and reduce costs through innovative applications. With a focus on web, mobile, blockchain, and AI applications, Alphabase offers a skilled team of engineers available for hire to support clients in achieving faster development timelines. Recently, the company launched an AI-powered sales software designed to streamline lead generation for businesses, emphasizing the company's commitment to AI-driven growth solutions.

Alphabase has garnered industry recognition and built a solid reputation through partnerships with clients in diverse sectors, from finance to technology. The company has developed a suite of custom AI agents that assist businesses in various capacities, such as customer support, data-driven decision-making, and user experience personalization. These agents leverage natural language processing (NLP) to handle customer inquiries efficiently, providing tailored responses and freeing support teams to focus on complex tasks. Alphabase's commitment to advanced AI applications has led to collaborations with major clients like IBTECH.io and Meritt, where they successfully implemented blockchain solutions and AI-driven functionalities.

In terms of technical capabilities, Alphabase supports a broad range of technologies and offers expertise in product design, app development, digital finance, and consulting. They utilize advanced machine learning algorithms to deliver services tailored to their clients' specific needs, applying AI for security modeling and analytics. For instance, their AI-driven security model assists SaaS companies in identifying and mitigating cyber threats in real-time. This approach to automation and analytics aims to help clients optimize operations and respond proactively to security risks, reducing costs and increasing efficiency.

Alphabase's product portfolio includes the AI Sales Development Representative, an AI agent that helps businesses increase customer engagement and conversion rates by analyzing customer behavior and refining marketing strategies in real-time. The company also offers specialized blockchain solutions, as demonstrated through projects like "Track The Myth" and "GSU Protocol," which apply blockchain technology for secure data tracking and smart contracts. With a scalable and secure platform, Alphabase's AI agents are built for longevity, providing businesses with reliable, ongoing support to meet their evolving needs.

The agency's commitment to seamless project management and client satisfaction is evident in its testimonials, with clients noting the company's ability to translate complex requirements into high-quality technical products. Alphabase provides end-to-end support, from data collection to deployment, ensuring each project aligns with the client's goals and technical requirements. Their transparent processes and consistent support have made Alphabase a preferred partner for companies seeking to harness AI for business growth and operational efficiency.



TALK TO US



Do you run a business in the Ai, Ml and Data Science industry?

Get in touch with your details now at

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and we'll take it from there.

Also email us for any comments, suggestions or errors in this whitepaper.

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About this Industry Roundup

Pakistan Software Export Board developed this paper by hiring services of independent consulting firms to prepare this roundup on Pakistan's Ai, Ml and Data Science sector. The paper focuses on Pakistan-based companies in this vertical and apprises the reader of the expertise available in this domain.

Disclaimer

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