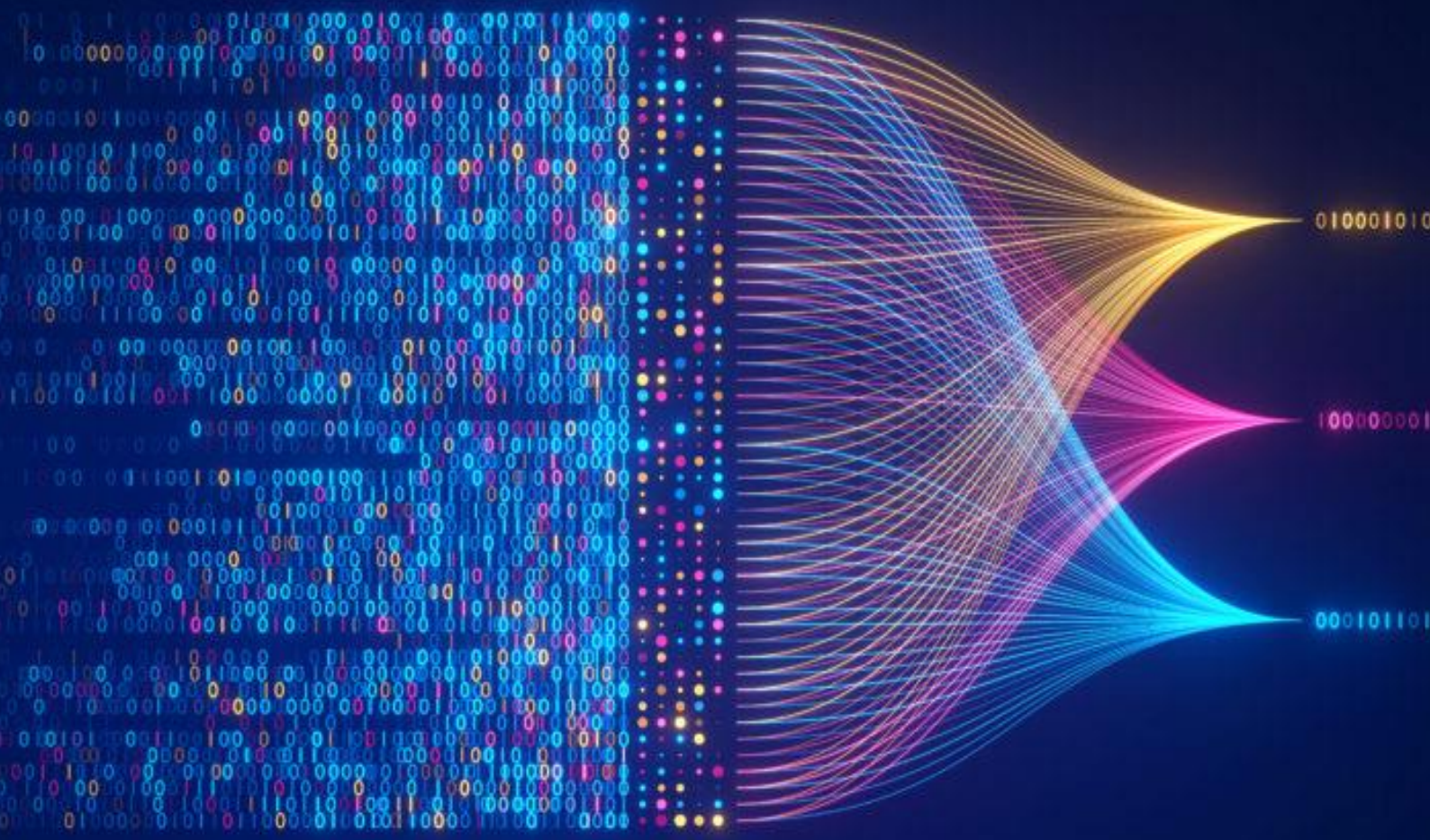
NixInfinity-AI



Service Descriptions

NixInfinity-AI

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NixInfinity-AI Introduction

Who We Are

NixInfinity-AI are a data boutique consultancy, that has expertise across the entire data lifecycle. Our work supports clients with data challenges from the management of its data assets through to analytics. using a range of tools and capabilities.

We were founded by Harj Balin, Tim Robinson and Sanjay Kumar in 2017, building on their decades of successful projects in Technology and Consulting. With a track record of delivering for every scale and maturity of company, and for the UK Government, the team decided it was time to build on their wealth of experience, helping companies take advantage of the transformative possibilities of the new data driven era.

Our team has significant experience of utilising cloud technologies to support re-platforming of data storage and leveraging BI tools, to build reporting and analytical systems. Furthermore, we have developed AI tools that have been woven into customer journeys; improved knowledge about data assets through development of catalogues; and improved data quality to support migration to new digital technologies from old monolithic systems.

A Word from Our Founder - Harj Bilan

Founder, CEO and Chief Architect

Nix are global experts at enabling organisations to exploit their digital assets, driving top- and bottom-line growth. Our mission is to support organisations in being able to achieve value from their digital estate. We bring expertise through the technology lifecycle, experience from the shop floor to the boardroom, and the vision to put you at the forefront of e-commerce.

Why NixInfinity-AI?

Navigating areas of business data, analytics and AI successfully can be challenging, but clients can rely on NixInfinity-AI to help clients harness the power of data and ensure they don't get left behind.

In today's digital world, data, analytics and AI play a key role in transforming native business operations, creating new business models and unleashing process improvements. As a consultancy practice, we enable business leaders to respond to these needs by driving digital-first transformation: from operations to technologies to people.

This strong heritage of innovation over the years has helped our clients leverage the potential from digital technologies, for example: AI, automation, and Cloud. These years of experience have successfully helped clients plan for data management transformation, including operating model definition, cloud data and analytics, technical components application and BI design.

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Whether these have been small specific problems to solve, or large transformational services to deliver, NixInfinity-AI have a wide range of data services, that can be selected to fit specific needs and packaged to form complete engagements.

Our data strategy consultants work with clients by ensuring data is structured, processed and extracted the right way, enabling the delivery of value across the clients' journey by empowering users with more agile and intuitive processes. As we understand that our clients' business needs come first, our team of consultants work flexibly to deliver results, be it advisory or end-to-end execution.

Commitment to Innovation:

We are committed to continuous learning and innovation, actively collaborating with clients and partners to stay at the forefront of technological advancements. We leverage cutting-edge methodologies and tools to deliver high-quality solutions that meet the evolving needs of the defence and security landscape.

At NixInfinity-AI, we believe that the value of information has increased exponentially in the last few decades and this trend will continue to grow into the future. The landscape is constantly evolving and the ability to properly understand data will result in the ability to derive the most value from this information. We enable businesses to harness the power of data and ensure they generate invaluable insights through it.

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Technical Expertise

Core Services

NixInfinity-AI are there for the whole of your data journey. Our consultants will work with you to understand the opportunities you have and the challenges you face.

Building on our decades of experience of helping clients plan for data management transformation, we'll put the support you need in place – from operating model definition, cloud data and analytics, AI and ML, reporting and BI systems, through to the team to deliver it.

Whatever your needs are you can be sure that we have the tools and knowledge to ensure that you get the most from your data.

Our team consists of highly qualified researchers and engineers with a proven track record in:

Data Strategy

Challenge: There is business data, but it is siloed and separate, difficult to exploit and hard to govern. This results in the value of the data being low, and your compliance risk being high.

Solution: Our data experts act as trusted advisors, working hand-in-hand with senior executives across organisations. Through in-depth discussions, we gain a comprehensive understanding of your strategic goals, key business drivers, and any data-related challenges you're currently facing. We then conduct a thorough assessment of your current data landscape, evaluating data quality, accessibility, and existing infrastructure.

This collaborative approach allows us to identify your unique data "pain points" and opportunities for improvement. Leveraging our expertise, we translate these insights into a clear and actionable data strategy. This strategy outlines a roadmap for data interventions across short, medium, and long-term horizons. Our plan details specific actions and investments that will transform your data from an untapped resource into a powerful asset, propelling you towards a more desirable data position and ultimately, improved business outcomes.

Data Governance

Challenge: Problems with data being siloed and separate, would mean there are difficulties in extracting results or hard to govern. It could be that there is a need to establish corporate governance around data, but do not know where to start. Or it could also be that the basics of GDPR/Data Protection Act 2018 regulations have been met, but it has raised more compliance issues.

Solution: Leveraging our team of seasoned data governance experts, we'll embark on a collaborative journey to elevate your organisation's data governance maturity. We'll begin by working closely with your data users and teams to conduct a thorough assessment, by utilising our established baseline data governance capability model, which provides a clear framework for evaluating key areas like data ownership, access control, data quality, and metadata management.

Through this collaborative process, we'll gain a comprehensive understanding of your current data governance practices. This includes identifying strengths to build upon and pinpointing areas for improvement. Armed with these insights, we'll then co-create a tailored roadmap for the next 3, 6, 12 months, and even extending to 5 years. This roadmap outlines actionable steps to progressively enhance your data governance capabilities. We would prioritise immediate "quick wins" for tangible results in the short term, while also establishing a long-term vision for sustainable data governance excellence.

Our commitment goes beyond simply providing a roadmap, by working hand-in-hand with your data users and teams throughout the entire process. This includes providing training and workshops to equip them with the knowledge and skills necessary to effectively implement and maintain sound data governance practices.

Data Architecture

Challenge: It may be hard for digital and/or back-office services to create or change because they can't easily surface data on things critical to your business (customers, citizens and assets). Or it could be that reports or analysis, that look across business divisions, are difficult/expensive/slow to create.

Solution: We would provide data architects to identify core user journeys and business systems that create or consume data about things that are critical to business success. We do this by identifying quick wins as well as formulating medium- and long-term plans to improve the speed at which our clients can deliver higher quality, data-driven user journeys. The design of the infrastructure and data pipelines enable quicker analyse and reporting across all lines of client business.

Data Audit

Challenge: There could be a number of challenges faced. There could be the task with improving the way data is used or governed across an organisation, but there is a lack of understanding of where to start. It could be that there is a need to better understand the risk exposure with legislation, such as the Data Protection Act 2018 or GDPR. Or there is a need to establish corporate governance regarding the business data, but a lack of where to start.

Solution: Our team of data audit specialists leverages our robust data capability model to conduct a comprehensive assessment of your organisation's data maturity level. This model goes beyond basic data collection to evaluate key aspects like data governance, data quality, accessibility, security, and alignment with business goals.

By comparing your current practices to industry benchmarks and best practices within the model, we can identify areas where your data management efforts can be strengthened. This detailed evaluation provides a clear roadmap for improvement, allowing you to prioritise initiatives that will yield the most significant impact. Working collaboratively with you to develop a data management strategy that addresses these key findings and unlocks the full potential of your data assets.

Data Engineering

Challenge: If data is inconsistently formatted, structured and processed, making it hard to extract the level of information required to help inform critical business decisions. Or, if there is a high amount of data collected already, but the majority of it is not used effectively or efficiently.

Solution: Our data engineering expertise goes beyond simply locating your data sources, ensuring your information is managed according to industry best practices and regulatory requirements. This includes tasks like data cleansing, standardisation, and transformation to guarantee its quality and consistency. We then design and implement efficient data pipelines that make your information readily accessible whenever and wherever it's needed. This could involve building APIs for programmatic data retrieval or establishing user-friendly interfaces for interactive exploration.

Our goal is to empower you to leverage your data assets seamlessly and unlock valuable insights that drive informed decision-making.

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Data Science & Analytics

Challenge: If there is a large volume of business data, but there are difficulties to interpret this data into tangible business decisions.

Solution: Our team isn't just about finding patterns in data; they are experts in unlocking the hidden narrative within your information. We leverage the latest data science techniques, combined with our deep industry knowledge and analytical prowess, to craft models and solutions that go beyond raw numbers. This is done by translating complex data landscapes into clear, actionable insights, providing you with the clearest possible understanding of what accurate data means for your specific business goals.

This empowers you to make data-driven decisions with confidence, optimise processes, and ultimately achieve significant competitive advantages.

Cloud Data Platform Design

Challenge: If there is a centralised data warehouse but there is a need to move to a cloud platform.

Solution: We offer a comprehensive approach that empowers you every step of the way. Our experienced team will provide a clear roadmap and framework, acting as your guide throughout the process. This roadmap will not only outline the steps involved in building your cloud data platform, but also break down each step into manageable tasks, ensuring a smooth and efficient implementation.

We understand that every organisation's data landscape is unique. That's why we begin by conducting a thorough assessment of your existing infrastructure. Through this analysis, we can identify potential areas for consolidation and optimisation, maximising the value you extract from your existing resources. This assessment also plays a crucial role in determining the right cloud model for your specific needs. Whether you require the flexibility and scalability of a public cloud, the security and control of a private cloud, or a hybrid approach that combines both, we'll guide you towards the most suitable solution for your specific business environment.

Our ultimate goal is to deliver a cloud data platform that is not just technically sound, but also strategically aligned with your organisation's objectives. We prioritise security, ensuring your data remains protected and accessible only to authorised users. Furthermore, we design your platform for accessibility, allowing authorised users to leverage valuable data insights from anywhere, fostering collaboration and driving informed decision-making.

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Supplementary Services

Unleash the full potential of our suite of existing solutions with our supplementary services designed to complement your core investments and offering a strategic and cost-effective way to enhance functionality, optimise performance, and maximise the return on your technology investments.

Cloud Services

The cloud has become an indispensable tool for driving efficiency, agility, and scalability, however, navigating the vast array of cloud services and solutions can be overwhelming. We can be your trusted partner, providing a comprehensive suite of cloud services designed to seamlessly integrate with your existing infrastructure and propel your business forward.

Cloud Advisory: Charting Your Cloud Journey
Our Cloud Advisory service serves as the cornerstone of your cloud migration or optimisation strategy. Our experienced consultants will work closely with you to understand your unique business needs, challenges, and goals. This collaborative approach includes:

- **Detailed Workshops:** We facilitate in-depth workshops to identify your current IT landscape, data architecture, and cloud readiness.
- **Application Assessment:** We perform a thorough analysis of your applications to determine their suitability for cloud migration and recommend the optimal deployment model (IaaS, PaaS, SaaS).
- **Cloud Strategy Development:** Leveraging our expertise, we craft a customised cloud strategy that aligns with your specific business objectives and risk tolerance.
- **Cost-Benefit Analysis:** We delve into potential cost savings and return on investment (ROI) associated with cloud adoption, providing a clear picture of the financial benefits.

Cloud Infrastructure and Implementation: Building a Secure Foundation
Once your cloud strategy is established, we offer a range of services to establish and optimise your cloud infrastructure:

- **Cloud Infrastructure Design:** Our team designs a secure, scalable, and cost-effective cloud infrastructure that satisfies your specific performance and security requirements.
- **Cloud Implementation/Migration:** We handle the entire implementation or migration process, ensuring a smooth transition while minimising disruption to your operations.
- **Cloud Migration:** This service includes data transfer, application migration, and configuration management for a seamless transition to the cloud environment.
- **Cloud Management & Optimisation:** We take ongoing management of your cloud infrastructure, optimising resources, ensuring security, and providing regular performance reports.

Cloud Cost Modelling and Optimisation: Maximising Your Investment
Controlling cloud costs is crucial for long-term success. We offer:

- **Cloud Cost Modelling:** Leveraging industry-leading tools, we create customised cost models to estimate your cloud expenditure, helping you optimise your budget.
- **Cloud Spend Optimisation:** Our experts analyse your cloud usage patterns and identify opportunities to reduce costs by right-sizing resources, leveraging reserved instances, and implementing other cost-saving techniques.

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Cloud Data Project Assurance: Peace of Mind for Your Data
Migrating your data to the cloud requires a strategic approach. Our Cloud Data Project Assurance service provides:

- **Data Discovery and Mapping:** We analyse your existing data landscape, identify sensitive data sets, and design a secure migration strategy.
- **Data Cleansing and Migration:** Our experts ensure data integrity throughout the migration process, removing inconsistencies and optimising data structures for improved performance in the cloud.
- **Data Governance Framework Implementation:** We assist in establishing a robust data governance framework to ensure data security, privacy, and compliance within the cloud environment.

Cloud Readiness Review: Ensuring a Smooth Transition
We offer comprehensive Cloud Readiness Reviews to evaluate your preparedness for the cloud:

- **Cloud Readiness Review - People & Process:** This review assesses your internal workforce's skills and identifies any necessary training requirements for a successful cloud transition. We also analyse your existing processes and guide you in aligning them to the cloud environment.
- **Cloud Readiness Review - Technology:** We offer a thorough assessment of your existing IT infrastructure to determine its suitability for cloud migration and advise on any necessary upgrades or adjustments.

Cloud-Aligned Data Strategy: Unlocking the Power of Your Data
We help you leverage the cloud to unlock the full potential of your data:

- **Cloud-Aligned Data Strategy:** We assist in developing a data strategy that aligns with your overall business goals and maximises the value of your data in the cloud.
- **Cloud-Based Data and Analysis Migration:** Our experts facilitate the migration of your data and analytics tools to the cloud, ensuring access to critical insights to support informed decision-making.

Artificial Intelligence (AI) Tooling & Capabilities

As a data focused organisation, we have experience of implementing AI into business operations and have done so successfully for several public and private bodies, but it fundamentally requires focus on the data management, assurance, and governance. For ensuring effective exploitation of data assets, we would advise and work with clients to make sure data is fit for purpose and plan to improve the management strategies. Our data experts have experience with early adoption of AI tools in the workplace, over many years, which has built our knowledge on the subject and supports the deployment of AI related tools with customers.

Due to this foundational understanding of AI, we are well positioned to advise clients across any industry or sector regarding the deployment of AI tools and capabilities. For example, we can describe the implications of any AI strategy in the boardroom, whether for the use of AI to support internal operations or the use of AI to help manage revenue development through effective customer management strategies. The experience we support the boardroom to grasp the changes they will need to make to deliver the positive impact from the implementation.

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We consider the user experience as vitally important, such that the relevant level of integration takes place, and the level of model retraining is appropriate to the service consuming the AI. This is a vital component of our work, as we are always keen to make sure that the user has a consistent experience and always considers the machine learning aspect of the AI lifecycle. An example of how we change business and technical process to reflect differing user needs, is that we would build a higher level of machine learning into solutions that are being used by inhouse analysts, compared to external facing services consumed by UK citizens.

AI & Machine Learning (ML) Services:

- **AI Tools Advisory:** Our team provides comprehensive AI and ML advisory services, helping you navigate the ever-evolving AI landscape. We assist you in selecting the most appropriate AI tools and strategies to align with your specific business goals and challenges.
- **AI Tools Implementation – DataRobot and GenAI:** Leveraging our expertise, we seamlessly implement leading AI tools such as DataRobot and GenAI.
    - **DataRobot:** We empower you to build, deploy, and manage powerful predictive models using DataRobot, a leading AI platform.
    - **GenAI:** Our team streamlines document processing and data extraction through the implementation of GenAI, an AI-powered document automation solution.

Software-As-a-Service

In today's data-driven world, harnessing the power of innovative Software-as-a-Service (SaaS) solutions is crucial for maximising efficiency and unlocking valuable insights from your data. Our suite of selected SaaS implementation services empowers you to leverage the latest cloud-based technologies and unlock their full potential within your organisation.

- **Boost Efficiency and Productivity with Industry-Leading Applications -** We offer seamless implementation of essential productivity tools like Microsoft Office 365. Our experienced team will ensure a smooth migration of your existing data and applications, minimising disruption to your workflow and maximising user adoption. You'll enjoy the benefits of collaborative tools, enhanced security features, and access to a range of applications from anywhere, anytime.
- **Unlock the Power of AI and Data Governance -** We are experts in implementing cutting-edge AI solutions like DataRobot and GenAI. Our services go beyond simple installation - we configure these tools to integrate seamlessly with your existing data infrastructure. We provide expert training and ongoing support to ensure your team can leverage the power of AI to automate tasks, generate actionable insights, and improve decision-making.
- **Gain Control and Visibility of Your Data Landscape -** For enhanced data governance, we offer implementation services for leading Enterprise Data Catalog (EDC) solutions, including Informatica Axon and Microsoft Purview. These powerful tools provide a centralised repository for your data assets, enabling easy discovery, lineage analysis, and improved data quality. Our team will configure the EDC to meet your specific needs, ensuring compliance with data regulations and facilitating data-driven decision-making across your organisation.
- **More Than Just Implementation - [Your Company Name]** goes beyond simply implementing SaaS solutions. We provide ongoing support and training to ensure your team can maximise the benefits of these technologies. We offer tailored solutions that meet your unique needs and objectives, ensuring a smooth transition to a more efficient and data-driven future.

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Business Strategy Services

We understand the complexities of modern business challenges and with the use of our team of experienced consultants, we bring a unique blend of industry knowledge and strategic thinking to every project. Whether you're looking to develop a comprehensive business strategy, transform core operations, or improve operational efficiency, we're here to guide you every step of the way.

Empowering Informed Decisions with Strategic Guidance:

- **Business Strategy & Transformation Advisory:** Our team partners with you to develop a clear and actionable business strategy aligned with your long-term goals. We provide expert guidance on business transformation initiatives, ensuring successful implementation and lasting impact.
- **Benefits Identification and Realisation:** We don't just develop strategies – we help you achieve them. Our proven methodology ensures you identify and realise the full potential benefits from any new initiative.
- **Portfolio Management & Advisory:** Optimise your resource allocation with expert portfolio management services. We assist in prioritising projects, managing risks, and ensuring alignment with your overall business objectives.

Optimising Performance Through Operational Excellence:

- **Business Analysis & Process Design:** Our experienced business analysts will analyse your current operations and workflows, identifying opportunities for improvement and designing efficient, optimised processes.
- **Operational Planning & Target Operating Model (TOM):** Develop a clear roadmap for operational efficiency. We'll assist in crafting an operational plan and defining your Target Operating Model to guide business transformation efforts.
- **Knowledge Management & Information Management:** Maximise the value of your organisational knowledge through effective knowledge and information management strategies.

Ensuring Stability and Resilience with Risk Management:

- **Business Continuity (BC) & Disaster Recovery (DR):** Mitigate risk and ensure operational resilience. We help you develop a robust BC/DR plan to minimise downtime and ensure swift recovery from unforeseen disruptions.
- **IT Governance & IT Operating Model:** We assist in establishing a robust IT governance framework and defining an optimal IT operating model that aligns with your overall business strategy.
- **Project/Programme Delivery & Recovery:** Navigate the complexities of project management with confidence. Our experienced team provides guidance on project/programme delivery and can assist in recovery efforts for projects facing challenges.

Additional Services:

- Independent Project/Programme Gateway Review
- Professions Skills and Capabilities (People)
- IT Restructuring and Reorganisation
- Business Intelligence and Reporting

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Recruitment-as-a-Service

Take the burden off your shoulders and focus on what you do best with our Recruitment-as-a-Service (RaaS) solution. We offer a pool of experienced recruiters who become an extension of your team, handling the entire recruitment lifecycle from start to finish.

Imagine a world where you don't have to worry about sourcing qualified candidates, wading through resumes, or scheduling countless interviews. Our recruiters are experts in IT talent acquisition, leveraging their industry knowledge and proven strategies to identify top talent aligned with your specific needs. We take care of:

- **Candidate Sourcing and Screening:** We utilise a multi-channel approach to source high-potential candidates from diverse talent pools, ensuring a wider selection for your consideration. Our rigorous screening process helps identify the most qualified individuals who meet your job requirements and company culture.
- **Streamlined Interview Process:** We manage the entire interview process, scheduling interviews with qualified candidates and coordinating logistics. This saves you valuable time and ensures a smooth and efficient experience for both you and the candidates.
- **Offer Negotiation and Onboarding:** Our team facilitates offer negotiation and assists with the onboarding process, ensuring a positive first impression and a successful transition for your new hires.

Our Clients

With more than 60+ clients globally, that NixInfinity-AI have supported, here we have a selection of clients we have worked with.

Project Experience:

NixInfinity-AI has successfully delivered numerous projects within the defence and security domain, including:

DESNZ Data Governance and Streamlining Project

DESNZ, responsible for data within the Department for Energy Security & Net Zero, faced significant challenges. Inconsistent, duplicated data across various departments made it difficult to find and use information, hindering effective decision-making. NixInfinity-AI implemented a data catalogue solution to address these issues. By building a central repository with clear definitions and ownership, they improved data discoverability, consistency, and governance.

This resulted in streamlined processes, improved data quality, and empowered stakeholders to make data-driven decisions. This case study demonstrates the transformative power of a well-designed data catalogue for organisations struggling with data management complexities.

NixInfinity-AI

Streamlining Fintech Decision-Making with AI and Automation

A leading Indian Fintech company faced challenges with data bottlenecks, manual work leading to inconsistencies, and lack of predictive insights. This hindered their decision-making processes. We implemented a solution in phases: data staging, transformations, AI-powered rules, and user-friendly dashboards. This resulted in an automated data pipeline, AI-powered models for proactive risk management, and self-service analytics tools.

The outcome was significant: improved decision-making, reduced operational costs, enhanced risk management, increased transparency, and a competitive edge. This project demonstrates the power of AI and automation in transforming Fintech data management and decision-making.

Streamlining Data Verification with CI/CD Pipelines

A large energy company struggled with inaccurate and non-compliant invoices for offshore work, potentially losing millions. Manual verification was slow and prone to errors. They needed a solution to automate the process. The company implemented CI/CD pipelines on Azure, automating data processing, testing, and ensuring quality. The system integrated various data sources, used AI to link personnel and invoices, and converted physical invoices to digital data. Users could flag poor data quality for improvement.

This solution recovered millions lost to overcharges, saved 70% of verification time, and was adopted by other regions. It demonstrates the power of automation in tackling complex tasks and achieving significant cost savings, improved accuracy, and faster approvals.

Testimonials

"NixInfinity-AI is our valued partner on AI and Analytics. Together we are working on mission critical machine learning systems which are game changers for ATM industry."

Narendra Deshmukh - VP, Electronic Payment and Solutions

"The ability to react to regional needs by integrating data of varying quality from multiple regional systems while never compromising on the quality of insights from the product release was what really built trust with the end users."

Finance & Procurement VP

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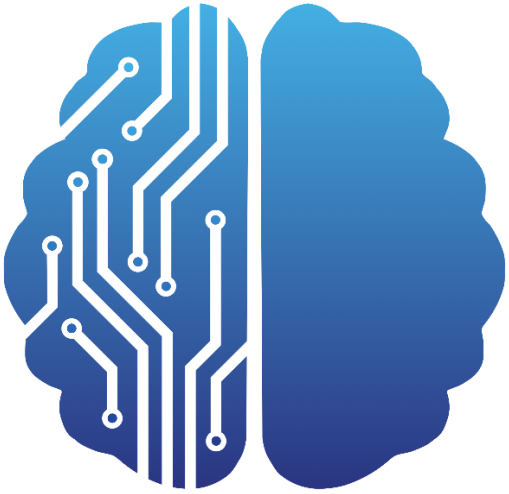

NixInfinity-AI

169 Pastures Hill
Littleover
Derby
DE23 4A

+44 (0) 7973752898

sales@nixinfinityai.com

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