CASE STUDY: MELIO.AI

It practices Machine Learning Operations (MLOps) by bridging the gap between data and IT Ops teams . They help to convert data to business value by deploying models into production. And they help clients **Design**, **Build** and **Maintain** impactful solutions.

In south Africa, Melio has enabled improving data scientist productivity with the implementation of an end-to-end machine learning platform by the use of Python Kubernetes technology.

where Data scientists lacked the bandwidth to support all business use cases hence they created platforms to allow the users to upload a dataset, create analysis and data transformation, run AutoML using state-of-the-art machine learning algorithms and deploy the model into production.

Also it uses leveraging azure machine learning to improve billing,accuracy and consistence by the help of python AzureSQL, AzureVNet, AzureDataFactory and AzureMachineLearning technologies. They provide accurate invoicing for patient stays in hospital is a significant challenge for the healthcare industry.

They faced challenges where High number of touch points involved in every case that is billed resulted in slow billing, billing errors and write-offs from stale claims not actioned timeously.

They managed to solve the problems by a custom-built rules engine which enabled business to prevent known billing issues before a patient is discharged or final billed and by PowerBI dashboard to support operationalisation and adoption of the solution.

They have shown Improved billing efforts resulting in higher quality bills that are paid faster by reduced medical aid claim rejections and short payments, reduced number of touch points for the majority of cases and directed focus on complex cases and Improved billing accuracy and efficiency resulting in reduced days sales outstanding.

CASE STUDY: INSTADEEP

It delivers AI-powered decision-making systems for the Enterprise. InstaDeep has built AI systems to tackle the most complex challenges across a range of industries and sectors by the use of GPU-accelerated computing, deep learning and reinforcement learning.

In biology AI has accelerated protein design it explore the protein sequences with AI language models trained on billions of amino acids in minutes and discover new protein designs and validate them with molecular dynamics simulations by the help of GPU clusters. DeepChain™helped to upload PDB multichain structure.

In logistic AI increased efficiency in last mile delivery the growth of last-mile delivery combined with a higher demand for faster and faster e-commerce processes, means logistics providers need to optimize all aspects of the services they provide. By integrating InstaDeep’s state-of-the-art decision-making AI systems, clients have the insight to not only delivery efficiency across the supply chain, but also maintain the margins and pricing to stay competitive in a landscape of constantly evolving customer needs.

In energy AI powered energy to fuel the world whereby In a world of commodities price volatility, the oil and gas industry must focus on increased operational efficiency. By utilising AI solutions from InstaDeep, enterprises are able to leverage automated workflows to ensure effective capital expenditure and greater return on investment. Our advanced prediction and recommendations systems can improve efficiency, evaluate well health, and apply predictive maintenance to both upstream and midstream sector in the oil and gas industry, as well as in power generation and transmission.

In electronic design DeepPCB™ Arrange the components in a way that optimizes performance, efficiency, and manufacturability. DeepPCB uses a credit system that allows to allocate only what you need for your boards. Create connections between the components while ensuring efficient signal flow.

They are able to obtain income from the products they make since the products they need to be paid off so as they can be accessed to functionality, this products include deeppcb, deepchain and deeppack

CASE STUDY : VEZEETA

It is a digital healthcare booking platform and practice management software in MENA which pioneer the shift to automated physician, clinic and hospital bookings making healthcare easily accessible in the region.

They enable patients to search, compare, and book the best doctors in just 1 minute. Doctors also provide Patients with seamless healthcare experiences through our clinic management software.

It is mostly applicable in  Egypt, KSA, Jordan, Lebanon, Kenya and Nigeria.

A good example at COVID-19 Vezeeta introduced **AI-Powered E-Commerce Platform for remote healthcare solutions.**

-first world.  With expertise in both machine intelligence research and concrete business deployments, we provide a competitive advantage to our customers in an AI-first world.  With expertise in both machine intelligence research and concrete business deployments, we provide a competitive advantage to our customers in an AI-first world.

CASE STUDY: SAMA

It provides high quality training data that powers AI technology. They discover new technologies and business methods that harness the power of markets for social good, leveling the playing field for those who do not share equally in the benefits of human progress.

Sama provides equitable access to work opportunities and growth by creating access to employment and supporting professional advancement. It is applicable in kenya

The Challenge of Isolating Product Imagery Sama engaged to evaluate model outputs to ensure the generative model was properly generating images that were free from text, logos, or any elements that did not belong to the product itself.These isolated product images could then be juxtaposed across more neutral backgrounds for advertising purposes.

Crafting Seamless Realities which is the Art of AI-Enhanced Product Ads they integrated custom-generated, contextual backgrounds into product ads so that products don't just sit against a backdrop, but belong there. This enhances the viewer's connection to the product and ultimately increases conversion rates.

When using Gen AI images, it was critical to ensure that the foreground seamlessly blends with its new setting for an optimal experience.

CASE STUDY: TECHMAX AFRICA

From the grasslands of Kenya, an African Silicon Valley, emerges a technology pioneer that has been shaping the ICT landscape for over two decades.

With a rich history of offering diverse services ranging from hardware sales to cutting-edge cybersecurity solutions, they stand as a testament to adaptability and growth. Embarking on a new chapter, they have seamlessly integrated additional offerings to our core cybersecurity expertise. Now, there repertoire spans IoT, Cloud technology, and AI, ushering in a new era of technological empowerment.

With a strong focus on safety and security, there AI-driven solutions encompass a wide range of applications including transport safety, behavior detection, personalized training, and safety scoring.

There company technology has harnessed AI to revolutionize education content and delivery, casting a wide net to reach a broader population. By leveraging AI algorithms, they have tailored educational content to suit individual learning styles, effectively catering to diverse audiences. This data-driven approach ensures that educational resources are not only accessible but also engaging, effectively reducing the knowledge gap in society. This empowerment extends to remote and underserved areas, where traditional access to quality education may have been limited. Through AI-enhanced content delivery, we are democratizing education, offering pathways to improved opportunities and breaking the cycle of poverty.

A good example is the EduSustainTech Solutions which was the client for the techmax Africa it was helped to develop AI-Driven Solutions for Enhancing Education and Fostering Environmental Sustainability. EduSustainTech Solutions illuminates how technology can be harnessed as a force for transformative progress. By intertwining AI-enhanced education delivery and sustainable resource management, we've redefined progress, fostering equitable access to knowledge while nurturing a greener planet.

It operates in kenya.

CASE STUDY: CLEVVA

Clevva provides intelligent decision support systems, enhancing productivity in financial services, insurance, and telecoms.

They use chatbots to answer questions although they struggle to have real conversations.

They use Virtual Agents for conversations. Virtual Agents, powered by CLEVVA, are different. They are capable of automating expert-level conversations that shape to customer but stay firmly on your prescribed guardrails. They won’t break a rule or say the wrong thing. Instead you can trust them to navigate every engagement at the level of your human experts.

To build, deploy and manage the Virtual Agents, they use there own low-code, enterprise grade Conversational Process Automation platform.

Clevva builds technology-powered solutions that remove robotic-type work from people. The Virtual Agents resolve more rule-bound queries so that human agents can focus their efforts on having richer, more meaningful customer connections.

There dedication is improving ways to extract logic from the brains of experts, finding simpler ways to capture this logic into contextually adaptive Virtual Agents, and developing easier ways to deploy these CX experts into diverse technology landscapes so they can do more work at less cost.

It operates in south Africa.