

Keelan Govender

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WORK EXPERIENCE

Kingmakers

June 2024 – Present

Senior Machine Learning Engineer

CBD, Cape Town, WC

- Lead ownership of AI team's Azure cloud infrastructure, including architecture design, deployment, maintenance, and cost optimization.
- Architected and implemented end-to-end contextual bandits infrastructure with real-time inferencing and automated Databricks workflows.
- Spearheaded DevOps excellence through repository refactoring, terraform standardization, and automated deployment modules.
- Pioneered Azure service implementation and established new API documentation standards.
- Led generative AI workshops and provided technical mentorship to junior ML engineers.
- Implemented comprehensive monitoring solutions and MLOps best practices.
- Enhanced development efficiency through automation and technical debt reduction.
- Strengthened cross-team collaboration through agile methodologies and stakeholder coordination.
- Developed recruitment automation tool using modern GenAI frameworks (CrewAI, LangChain, LangGraph).
- Created proof-of-concept for automated market research and social media content generation using generative AI tools.
- Developed end-to-end clustering approach for personalized staking to enhance user engagement and increase AWPU (Average Wager Per User)

Capitec Bank

Sep. 2022 – May, 2024

Intermediate Machine Learning Engineer

Stellenbosch, Cape Town, WC

- Spearheaded the establishment of a robust cloud computing platform to empower data scientists and analysts in model development, analysis, dashboarding, and deployment.
- Led the implementation of the "Next Best Actions" project, enhancing user experience by deploying a recommender engine for Capitec products, engaging customers through the app.
- Expanded role to include ongoing monitoring and enhancement of platform and live models, striving for a personalized banking experience for every Capitec client.
- Continuously contribute expertise to ensure seamless platform operation, optimize model performance, and realize a vision of enriched banking experiences for clients.

The Shoprite Group of Companies

Jan. 2022 – Sep. 2022

Machine Learning Engineer

Brackenfell, Cape Town, WC

- Assisted in the development and implementation of a contactless computer vision store project, inspired by Amazon Go.
- Developed cloud infrastructure supporting the computer vision system, ensuring scalability and efficiency for seamless operations and data processing.
- Utilized Unity 3D to create a training environment and dataset, generating diverse training images and enhancing object recognition through scripted variations.

- Automated image labeling within the 3D program space, improving model performance and optimizing the training process.

The Shoprite Group of Companies

Feb. 2021 – Dec. 2022

Data Science Apprentice

Brackenfell, Cape Town, WC

- Established robust data engineering pipelines to ensure seamless flow of critical data for analysis and decision-making.
 - Served as a dedicated Data Science Apprentice at The Shoprite Group of Companies, contributing to impactful business solutions through Python programming, foundational data science principles, and cloud computing.
 - Conducted in-depth analytics to extract valuable insights and translated them into user-friendly dashboards, aiding in decision-making processes.
 - Implemented machine learning models to refine and optimize pricing strategies, actively participating in strategic decision-making.
 - Crafted innovative solutions for data retrieval, utilizing mobile and web scraping techniques to meet unique business needs.
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EDUCATION

University of the Western Cape

Jan, 2017 - Dec, 2020

BScHon Computer Science

Cape Town, WC

- Magna Cum Laude distinction for honours in Computer Science.
 - Graduated second in the faculty of Computer Science.
 - Deep engagement with computer science fundamentals, challenging projects, and consistent pursuit of intellectual growth.
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CERTIFICATIONS, SKILLS & INTERESTS

Certifications:

- **AWS** Certified Solutions Architect – Developer
- **AWS** Certified Cloud Practitioner
- **Azure** Fundamentals
- **Hashicorp** Terraform – Associate
- **IBM** Cloud Application Developer – Mastery
- **IBM** Cloud Application Developer - Explorer

Skills:

Python Programming, Cloud Computing, AWS, Azure, Data Structures, Algorithms, Data Engineering, Databases, Machine Learning, Terraform.

Interests:

Comedy; Weightlifting; Reddit, Gaming, Jogging, Cycling, Swimming, Netflix, Movies.