Lucky Manamela

Junior Data Engineer | Data Scientist | BI & Cloud Engineer

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SUMMARY

Junior Data Engineer, Data Scientist, BI and Cloud Engineer with practical experience in Python, SQL, Power BI, and Azure, gained through a completed Graduate Data Scientist contract at Sambe Consulting. Experienced in building machine learning and computer vision models, supporting ETL pipelines, and deploying cloud-based AI applications. Strong foundation in data analytics, BI dashboards, and Agile project delivery.

EDUCATION

Honours in Bachelor of Computing (Data Science)
Belgium Campus iTversity | 2022 – 2025

National Senior Certificate (Matric)
Phomolong Secondary School | 2018

WORK EXPERIENCE

Sambe Consulting Graduate Data Scientist (Contract) | Feb 2025 – Jan 2026
- Supported BI and data engineering projects using Python, SQL, Power BI, and Azure.
- Assisted in developing and maintaining ETL pipelines and data warehouse solutions.
- Built predictive machine learning models (scikit-learn) for business and HR analytics use cases.
- Designed and delivered executive-level Power BI dashboards integrated with SQL Server.
- Collaborated with business, risk, and technical teams in Agile environments.
- Worked with Databricks notebooks and SQL for data processing and analysis tasks.
- Utilized the Elastic Stack (Elasticsearch, Logstash, Kibana) for log analysis and data monitoring.
- Developing a responsive Power Platform application for pharmaceutical order tracking and reporting.
- Automating database creation and server networking using Python, SQL, Pinggy, and GitHub Actions.
- Configuring Elastic Stack (Elasticsearch, Kibana) for timesheet data migration and analytics.
- Building predictive ML models and delivering executive-level Power BI dashboards.
- Applying user-centered design and independent problem-solving in an Agile enterprise environment.

PROJECTS

Tuberculosis Detection System (Computer Vision & Explainable AI Project)
- Developed and deployed a web-based tuberculosis detection system using a **Convolutional Neural Network (CNN)** hosted on **Azure Custom Vision**.
- Implemented an image upload workflow where radiologists submit chest X-ray images for automated prediction.

- Built an image preprocessing pipeline before sending images to the trained CNN model for inference.
- Integrated **Explainable AI (Grad-CAM)** to visualize and highlight key image regions influencing model predictions, improving interpretability and trust.
- Deployed the application to **Azure App Service (Azure Web Services)** for real-time inference.
- Stored original medical images securely in **Azure Blob Storage**.
- Used **Supabase** for authentication and for storing prediction metadata and audit records.
- Designed an end-to-end AI solution combining machine learning, cloud infrastructure, and secure data management.

Employee Attrition Prediction (Machine Learning Project)
- Built predictive models using Python and scikit-learn to identify factors contributing to employee attrition.
- Performed data preprocessing, feature engineering, and model evaluation.
- Delivered insights to support HR decision-making.

HR Data Warehouse & BI Analytics Solution
- Designed and implemented a data warehouse for HR analytics and reporting.
- Developed Power BI dashboards connected to SQL Server.
- Automated reporting workflows and improved data accessibility for management.

Executive BI Dashboards
- Created interactive dashboards using Power BI and DAX for business and management reporting.
- Integrated multiple data sources including SQL databases and cloud-based datasets.

Timesheet Data Migration (ETL & Real-time Visualization)
- Migrated enterprise timesheet data using complex SSIS packages and optimized SQL queries.
- Configured Elastic Stack (Elasticsearch, Logstash, Kibana) for real-time monitoring dashboards.
- Automated the migration lifecycle using GitHub Actions CI/CD pipelines.

Order Tracking & Reporting App (Power Platform Development)
- Designed user-centered Power Apps interface optimized for Desktop and Mobile devices.
- Developed automated workflows with Power Automate and SharePoint as a secure backend.
- Conducted iterative user testing to ensure cross-device compatibility and seamless UX.

Automated Database & Server Networking (CI/CD Automation)
- Implemented automated deployment of database instances using GitHub Actions.
- Configured server networking with Pinggy to expose local SQL services for remote collaboration.

CERTIFICATIONS

Microsoft Certifications (2025)
- PL-300: Power BI Data Analyst Associate
- DP-700: Fabric Data Engineer Associate
- Microsoft Certified: Fabric Analytics Engineer Associate

ADDITIONAL TRAINING & COURSES

- Python for Data Science and Machine Learning
- REST APIs with Flask and Python
- Microsoft Azure Fundamentals (AZ-900, DP-900)
- GitHub Actions
- SQL & PostgreSQL Developer Guide
- Generative AI for Beginners
- Power BI Advanced DAX
- Linux for Beginners
- Elastic Stack (Elasticsearch, Logstash, Kibana)
- SSIS & SSRS
- Agile & ITIL 4 Foundations

SKILLS

- Programming & Data: Python, SQL, R
- Machine Learning: scikit-learn, CNNs, predictive modeling, data preprocessing, model evaluation
- Computer Vision: Azure Custom Vision
- Explainable AI: Grad-CAM
- Cloud & Platforms: Microsoft Azure, Azure App Service, Azure Blob Storage, Microsoft Fabric, Databricks
- BI & Analytics: Power BI, DAX, executive dashboards
- Data Engineering: ETL pipelines, data warehousing, data modeling
- Big Data & Observability: Elastic Stack (Elasticsearch, Logstash, Kibana)
- APIs: REST APIs (Flask, Python)
- Tools: Git, GitHub, Jira, Confluence, Supabase
- Methodologies: Agile / Scrum

TECHNICAL STACK

- Languages: Python, SQL, R, C#, JavaScript (basic)
- Databases: SQL Server, MySQL, Oracle
- Big Data / Analytics: Databricks, Elastic Stack (Elasticsearch, Logstash, Kibana)
- Cloud: Azure, Microsoft Fabric
- BI Tools: Power BI
- Version Control: Git, GitHub
- APIs: Flask REST APIs
- Authentication & Storage: Supabase, Azure Blob Storage

LEADERSHIP & ACTIVITIES

- Vice President – Student Representative Council (SRC)
- Chess Player
- Soccer Player