Ian Riua Muriu
Data Analyst | Python & SQL Developer | Data Science & IT Specialist
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SUMMARY

Data Analyst with a Bachelor's degree in Business Information Technology, skilled in Python, SQL and machine learning. Built predictive models with up to 85% accuracy, automated ETL pipelines and created dashboards in Power BI and Tableau that improved reporting efficiency by 30%. Experienced in bridging IT systems and analytics to deliver scalable, business-focused solutions.

SKILLS

☐ **Programming & Development**: Python (pandas, NumPy, scikit-learn, XGBoost), SQL (queries, optimization, stored procedures), API integration, ETL pipelines, Git/GitHub

☐ **Data Analysis & Visualization**: Data cleaning & wrangling, Exploratory Data Analysis (EDA), statistical modeling, regression, hypothesis testing, Power BI, Tableau, matplotlib, seaborn, Dashboard Development, Reporting Automation

☐ **Machine Learning & AI**: Supervised & unsupervised learning, model training & evaluation, feature engineering, hyperparameter tuning (GridSearchCV/RandomizedSearchCV), predictive analytics, NLP basics

☐ **Data Engineering**: Database management, pipeline automation, ETL processes, data warehousing concepts

☐ **Business & Analytics Tools**: Microsoft Excel (advanced), Jupyter Notebook, Agile/Scrum collaboration, Business Intelligence (BI) tools

☐ **IT & Systems Support**: Network configuration (LAN/WAN), troubleshooting, system administration, IT security best practices

PROJECTS

Summarizer Project(Insight Distiller)-https://github.com/IAN-RIUA/Summarizer_Project

☐ Built an **AI-powered summarization tool** using transformer models in Python to condense blogs, PDFs and articles into clear, concise insights.

☐ Designed a **FastAPI backend** with a **Streamlit interface** for real-time text summarization, improving accessibility for end users.

☐ Validated performance using **ROUGE and BERTScore**, achieving reliable summarization quality and reducing reading time by **60%** for long-form content.

Loan-Approval-Predictor-https://github.com/IAN-RIUA/Loan-Approval-Predictor

☐ Developed a **machine learning model** using a Random Forest Classifier to predict loan approvals based on applicant financial attributes (income, credit score, credit history).

- Applied **data preprocessing** (encoding, outlier handling, SMOTE) and **hyperparameter tuning** (RandomizedSearchCV) to improve accuracy and generalizability.

- Evaluated with **precision, recall, F1-score, and ROC AUC**, achieving **82% accuracy** and providing insights through feature importance analysis to identify key approval factors.

- Delivered a reproducible model packaged with **joblib** to support automated decision-making in financial institutions.

Natural-Language-Process-https://github.com/IAN-RIUA/NLP-Project

- Built a **sentiment analysis system** to classify tweets about brands as positive, negative, or neutral.

- Implemented **NLP preprocessing** (tokenization, lemmatization, TF-IDF) and trained **ensemble ML models** (Logistic Regression, Random Forest, XGBoost, stacking).

- Achieved **87% classification accuracy**, enabling insights for **brand reputation monitoring and customer feedback analysis**.

EXPERIENCE

Data Analyst Intern(Volunteer) | **The Nairobi Hospital**
October 2025– Present | Nairobi Kenya

- Collect, clean, and analyze datasets to identify trends and key performance indicators.

- Build interactive dashboards in Power BI and Tableau to communicate insights.

- Use Python and SQL for automation, data extraction, and visualization.

- Collaborate with cross-functional teams to translate business questions into data-driven solutions.

- Support senior analysts in developing predictive models and performance reports.

Front End Developer | **Ciphercom Limited**
January 2024–September 2024 | Nairobi Kenya

- Developed and maintained responsive, user-friendly interfaces using **HTML, CSS, JavaScript and React**, improving customer engagement and usability.

- Collaborated with back-end developers to integrate **RESTful APIs**, ensuring seamless data exchange and smooth functionality across systems.

- Translated design wireframes into functional UI components, delivering a consistent and visually appealing product.

- Built **reusable code libraries** and optimized application performance, reducing page load times and supporting scalability.

- Ensured UI/UX designs met technical feasibility standards and implemented best practices in **validation, accessibility and security**

Information Communication Technology Intern | Ministry of Education
Feb 2023 - Jan 2024 | Kirinyaga County

- Supported the **Digital Literacy Programme** by training teachers and assisting in classroom technology adoption.

- Developed and curated **e-learning content**, aligning with curriculum standards to enhance student engagement.

- Provided on-site technical support for devices, networks, and digital platforms, ensuring smooth integration of ICT in teaching.

- Promoted **safe and ethical use of technology** and contributed to policy development on ICT practices in education.

Assistant System Adminstrator | Thika School of Medical Health Sciences
Jan 2020 - Apr 2020 | Thika

- Installed, configured, and maintained staff workstations and local networks (LAN/WAN).

- Troubleshot hardware, software, and networking issues, ensuring minimal downtime.

- Digitized records through data entry and supported reporting processes with daily activity summaries.

IT Technician | Ministry of Interior
Jul 2019 – Sep 2019 | Kibwezi

- Managed **new system user accounts**, database backups, and server monitoring.

- Set up and maintained LAN infrastructure, ensuring system availability and reliability.

- Performed **hardware/software maintenance** and trained staff on data entry and verification systems.

- Cleaned, verified, and corrected data for accuracy, producing daily progress reports.

EDUCATION

Mount Kenya University | Bachelor of Business Information Technology   Jan 2017-Jul 2022

- Built a foundation in **IT infrastructure, database management, programming and business systems**.

- Developed skills in bridging **technology with business solutions**, including digital transformation strategies.

Moringa School | Data Science   Feb 2025-Aug 2025

- Gaining practical expertise in **Python, SQL, machine learning and data visualization**.

- Hands-on projects in **data preprocessing, model evaluation and predictive analytics**.

REFERENCES

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