

FANUEL KEMEI

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PROFESSIONAL SUMMARY

Analytical Data Science practitioner with a strong foundation in predictive modeling and powered application development. Experienced in building end-to-end data pipelines- from cleaning and preprocessing to model deployment. Proficient in Python, SQL, and Scikit-learn, with a proven ability to translate raw datasets into actionable insights for healthcare, e-commerce, and climate solutions.

TECHNICAL SKILLS

- **Data Science & ML:** Scikit-learn, TensorFlow, Model Training & Evaluation, Feature Engineering, Data Preprocessing.
- **Programming & Tools:** Python (Pandas/NumPy), SQL, JavaScript, Jupyter Notebooks, Google Colab, Git, Docker.
- **Databases & Backend:** MySQL, PostgreSQL, Django (for ML Deployment), Query Optimization, ERD Design.
- **Visualization & Automation:** Streamlit, PythonAnywhere, Bash Scripting.

EDUCATION

B.Sc. Computer Science | Karatina University, Nyeri | *Expected 2027*

- **Certifications & Training:**
 - **HCIA – Artificial Intelligence** | Huawei
 - **Software Development** | Power Learn Project (PLP)
 - **Cybersecurity Training** | ICT Authority (ICTA)
 - **Data Science & Machine Learning** | Udemy

- **Project Management** | Udemy

PROJECT EXPERIENCE

Telemedicine Platform for Rural Access | *Machine Learning Engineer Developed an AI-driven triage system to improve healthcare accessibility.*

- **Engineered** a symptom-checking classification model using Python and Scikit-learn, achieving an estimated **85% accuracy** in preliminary diagnostic tests.
- **Implemented** rigorous data preprocessing pipelines to clean a dataset of **2,000+ records**, successfully handling missing values to ensure model reliability.
- **Built** a secure Django backend to manage patient history, achieving **sub-200ms** data retrieval speeds for real-time consultation support.

Backend Utility Scripts & Automation | *Data Analyst*

- **Automated** repetitive data cleaning workflows (file categorization, renaming) using Python and Bash scripts, processing batches of **500+ files** without manual intervention.
- **Reduced** manual data preparation time by approximately **40%**, streamlining the ETL (Extract, Transform, Load) process for downstream analysis.

E-Commerce Bookstore Database | *Database Architect*

- **Designed** a normalized MySQL database schema to efficiently manage users, inventory, and transaction logs for a **high-volume** bookstore environment.
- **Optimized** complex SQL queries for sales reporting, reducing data retrieval latency by **30%** to support real-time decision-making.
- **Generated** structured datasets from raw transaction logs to provide actionable inventory insights.

LEADERSHIP & COMMUNITY

Technical Volunteer (Data & Databases) | *Climate Restoration Alliance*

- **Designed** and maintained structured databases to track and organize climate restoration metrics, ensuring data integrity for the organization.

- **Managed** data entry pipelines and cleanup processes to support environmental impact analysis and reporting.

Campus Ambassador | *Phoenix KE Analytics*

- **Organized** peer learning sessions to introduce **30+ students** to Data Science concepts and professional analytics networks.
- **Facilitated** connections between university students and industry professionals to promote data literacy on campus.

Hackathon Project Lead

- **Led** a cross-functional team of 5 contributors through Agile sprints, delivering a functional data-driven prototype within strict timelines.
- **Managed** task allocation and code integration using Git, ensuring practical and functional project outcomes.

REFERENCES

Available upon request.