FANUEL KEMEI

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PROFESSIONAL SUMMARY

Data Scientist and Technical Product Builder with a specialized edge in deploying intelligent systems. I bridge the gap between statistical analysis and backend engineering, moving beyond simple modeling to build end-to-end solutions. Proficient in Python, SQL, and Scikit-learn, with a proven ability to translate raw datasets into actionable insights and deploy secure, scalable applications 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/Matplotlib/Seaborn), 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 | 2023

- **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 **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

Global Ambassador & Technical Volunteer | *Climate Restoration Alliance*

- **Championing** the global mission to restore atmospheric CO_2 to safe pre-industrial levels alongside leaders like Ilan Mandel.

- **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.

Recognized Innovator | *Access 2.0*

- **Qualified** in the competitive Access 2.0 program, recognized for technical excellence and the ability to build practical, high-impact technology solutions under rigorous standards.

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 in inter-campus hackathons.

- **Managed** task allocation and code integration using Git, ensuring practical and functional project outcomes.

REFERENCES

Available upon request.