DANCUN NGUGI N

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PROFILE

Final-year BSc. Data Science student with hands-on experience in healthcare, fraud detection, and analytics projects. Skilled in MySQL, R, Python, machine learning, and dashboarding. Completed a 3-month internship at USAID Fahari Ya Jamii and currently seeking **urgent paid data roles or internships**. Ready to contribute 3-5 hours daily remotely or full time if need be.

EDUCATION

Meru University of Science and Technology – (*Graduation expected AUGUST/2025*)
BACHELOR OF SCIENCE IN DATA SCIENCE

RELEVANT COURSEWORK

Statistics for Data Science ✦ Programming for Data Science (Python/R)
Machine Learning ✦ Big Data Analytics ✦ Data Visualization
Data Mining ✦ Database Management Systems ✦
Recommender systems ✦ Natural Language Processing ✦
Neural Networks ✦ Computer Security and Cryptography

TECHNICAL SKILLS

- **Languages:** Python, R, SQL, HTML/CSS
- **Libraries:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Streamlit
- **Databases:** MySQL, PostgreSQL
- **Tools:** Excel, Jupyter, VS Code, Git, GitHub, Tableau (Basic), DHIS2
- **Machine Learning:** Classification, Clustering, Random Forest, Logistic Regression, EDA, SMOTE
- **Other:** Report writing, Data cleaning, Feature engineering, Data visualization

RELEVANT COURSES COMPLETED

- ✦ Programming languages: Python, R, SQL
- ✦ Data analysis tools : NumPy , Scikit-learn
- ✦ Visualization Tools :Power BI, Tableau, Matplotlib ,Seaborn
- ✦ Cloud Platforms :Azure ,Oracle Cloud Infrastructure
- ✦ Database management

- ✦ Statistics for data science
- ✦ Data Mining
- ✦ Big Data Technologies :Hadoop ,Spark

PROFESSIONAL EXPERIENCE

USAID Fahari Ya Jamii Project | Data Science Intern *May 2024 - July2024*

- Led data pipeline development and validation, collaborating with healthcare personnel to implement program monitoring and reporting systems
- Engineered and optimized MySQL queries to extract and analyze healthcare data, improving reporting efficiency by creating automated routine reports
- Developed interactive dashboards using National Data Warehouse superset feature, enabling real-time visualization of key healthcare metrics
- Performed comprehensive data quality assessments, creating frequency distributions to identify and resolve data discrepancies
- Implemented predictive analysis using machine learning models to uncover insights and trends in healthcare data
- Utilized R, SQL, and other data science tools to clean, preprocess, and analyze large healthcare datasets
- Built and maintained Pivot tables for efficient data retrieval from DHIS2 platforms
- Collaborated with IT support to integrate various data tools with KenyaEMR system

PROJECTS

ART Adherence Prediction among Kenyan Adolescents

- Developed a full ML pipeline to predict adherence using synthetic data.
- Conducted EDA, feature engineering, and Random Forest modeling.
- Deployed a Streamlit web app with clinical reasoning output blocks.

Credit Card Fraud Detection System

Project Lead | 2024

- Developed a machine learning model to detect fraudulent credit card transactions

- Implemented feature engineering and selection techniques to improve model accuracy

- Utilized Python libraries (Scikit-learn, Pandas) for data preprocessing and model development

Healthcare Data Visualization Dashboard

Lead Developer | 2023

- Created an interactive dashboard to analyze patient health data and treatment outcomes

- Implemented data visualization techniques using Power BI and Tableau - Integrated multiple data sources to provide comprehensive healthcare insights

Hospitality Management System

Full Stack Developer | 2023

- Designed and implemented a web-based management system using WAMP/XAMPP

- Developed backend functionality using PHP and MySQL
- Created user-friendly interface for booking and inventory management

CYCLING
HIKING
COMMUNITY SERVICE

- ✦ Mr. Antony Irungu
  Data Science Course Advisor, Meru University of Science and Technology
  0721783845
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- ✦ Dr.Amos Chege Innovation centre director Computer science department chekiramo@gmail.com

- ✦ Mr. Gilbert Ruto Data Manager , Fahari ya Jamii

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- ✦ Mr. Ashford Munene   Lead Data Analyst , Fahari Ya Jamii
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