

# DANCUN NGUGI N

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## OBJECTIVE: DATA SCIENCE INTERNSHIP

An enthusiastic and motivated Final year Data Science student from Meru University of Science and Technology seeking an industrial attachment opportunity to gain practical experience, apply academic knowledge, and develop professional skills in data analysis, machine learning, and related fields.

## 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

Programming Languages (Python, R) ▪ Data Manipulation and Analysis (Pandas, NumPy)  
Data Visualization (Matplotlib, Seaborn, Tableau, Power BI MS Excel) ▪ Machine Learning and Algorithms  
SQL and Database Management ▪ Big Data Technologies (Hadoop, Spark) ▪  
Version Control (Git) ▪ Basic Understanding of Cloud Platforms Azure and Oracle.

## 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
- Version Control :Git
- 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 - July 2024*

- 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

### 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

### ART Adherence Prediction Research

Principal Researcher | 2024

- Leading research on predicting antiretroviral therapy adherence using machine learning
  - Developing predictive models to identify risk factors affecting medication adherence
  - Implementing data analysis techniques to evaluate healthcare accessibility impact
- Synthetic data generation with real world characteristics

## HOBBIES

CYCLING

HIKING

REFEREES

- Mr. Antony Irungu  
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