MUHUMUZA DEUS MUGENYI

STATISTICIAN & DATA SCIENTIST

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Kampala, Uganda

Muhumuza Deus Mugenyi

EDUCATION

BSc in Statistics
Kyambogo University

TECHNICAL SKILLS

Programming:
Python

ML & Data Science:
PyTorch, Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn

MLOps & Deployment:
Docker, MLflow, ONNX, TorchServe, FastAPI, GitHub Actions

Tools & Software:
Jupyter Notebooks, Git, PowerBI, Excel

Core Competencies:
Statistical Analysis, Model Training & Optimization, Exploratory Data Analysis (EDA), Data Visualization, CI/CD Automation

SUMMARY

Self-driven Machine Learning Practitioner and Statistics student with hands-on experience in the full MLOps lifecycle, from training models in **PyTorch** to deployment with **Docker** and **FastAPI**. Proven ability to manage end-to-end projects, automate workflows with **GitHub Actions**, and track experiments with **MLflow**. Creator of the 'ML Terminal' YouTube channel, dedicated to making complex ML concepts accessible. Seeking to apply practical data science and deployment skills to an impactful internship or entry-level role.

PROJECTS

PlantVision | End-to-End Plant Disease Detection System

Personal Project

- Engineered and trained a Convolutional Neural Network (CNN) in **PyTorch** on a dataset of over 50,000 images to accurately classify multiple plant diseases.
- Developed and containerized a robust deployment pipeline using **Docker**, **FastAPI**, and **TorchServe** to serve the model for high-performance inference.
- Implemented a full MLOps workflow with **MLflow** for experiment tracking and model versioning, and automated CI/CD processes with **GitHub Actions**.

Predicting Insurance Premiums based on various factors

Kaggle Competition

- Analysed and pre-processed a complex dataset, engineering novel features to improve model performance and uncover key business insights.
- Developed and benchmarked multiple classification models, including LightGBM and XGBoost, utilizing cross-validation for robust evaluation and selection.
- Authored and published a comprehensive Exploratory Data Analysis (EDA) notebook on Kaggle, showcasing data cleaning, visualization, and storytelling techniques.

ACTIVITIES & INITIATIVES

Founder & Creator | ML Terminal (YouTube Channel)

- Produce animated educational videos that simplify complex machine learning and statistics concepts for a wide audience, demonstrating strong communication and teaching abilities.

Open-Source Contributor

- Actively maintain well-documented machine learning projects on GitHub, focusing on creating reproducible workflows