Pamela Mwirigi

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SKILLS

- Programming and Scripting Languages/Frameworks: Python, PHP, PostgreSQL, Cassandra, Flask, Laravel
- Operating Systems / Version Control: Windows, Ubuntu, Git.
- High-Performance Computing: AWS, Docker
- Numerical and Plotting Packages: NumPy, Pandas, SciPy, Matplotlib, Scikit-Learn, PyTorch, TensorFlow, and Keras.
- Markup: Familiarity with Markdown, and HTML
- Analytics/Research/Writing: Power BI, Dashboard creation, A/B testing, ETL, Tableau

CONTINUOUS LEARNING

2021 - **MIT MicroMasters -** Machine Learning with Python from Linear Models to Deep Learning

2022 – **Imperial College of London –** Mathematics for Machine Learning

2022 – **MOOC** - Big Data Hadoop & Spark Developer

2020 – 2021 – **Techcamp -** Machine Learning and Data Science Using Python Programming

EDUCATION

February 2014 – September 2018 **- The University of Nairobi** - BSc (Hons) Real Estate, First Class Honors, GPA 3.8/4

EXPERIENCE

*Feb 2022 - Present – **Sandbox Review Committee, Capital Markets Authority (CMA)** – Member*
- Technical expert in reviewing fintech applications in Machine Learning and Blockchain.

*Feb 2022 - Present – **Furaha Ventures** – Intern*
- Building a recommender system for a meal planning app for different health conditions including diabetes.

*Jan 2022 – Present – **iNeuron AI** – Deep Learning Intern*
- Establish the efficacy of NLP for the prediction of financial markets' volatility over the GARCH model through price and text data collection, database creation, cleaning, modeling, tuning, and deploying the model to the cloud.

*Aug 2019 – Present **- AFFO, The African Marketplace** - Data Analyst*
- Established 5 international markets, gained over one thousand clients, and struck 3 major partnerships within 6 months of inception through the collection, cleansing, visualizing, modeling, and analysis of both structured and unstructured market data.
- Increased revenues for over 400 farmers by 13 – 30% measured by revenue growth rate by establishing direct markets and maintaining a vibrant social media presence regionally and internationally through a period of one year.

*October 2018 – December 2018 **- Land Development & Governance Institute** - Research Officer*
- Delivered a stellar land service delivery action plan to the Ministry of Lands and Physical Planning of Kenya for the 47 counties by conducting extensive investigative research with the oversight authority.
- Significantly reduced the inefficiencies in land service delivery by an estimated 2% as measured by a reduction in the customer waiting times through providing much more effective service monitoring solutions.

*February 2018 – August 2018 - **Syagga & Associates Ltd**- Valuation and Research Assistant*
- Successfully championed and implemented a fluid valuation formula improving accuracy by 5% for assets in good working condition and 70% for disposable items improving the overall accuracy of valuation projects in the firm.
- Contributed to a 6% increase in revenue through 16 major valuations that raised 1 billion Kshs. in revenue over four months, major growth for the firm.

PROJECTS

- Digit Recognition: Used multiclass SVM, softmax regression, and deep learning (FCN, CNN) to recognize digits.
- Automatic Review Analyzer: Used Perceptron and Pegasos algorithms for sentiment analysis of Amazon reviews.
- Netflix Movie Ratings: Used Gaussian mixture models for collaborative filtering to predict movie ratings.
- Reinforcement Learning: Taught an agent to play a simple game using parameterized Q-learning.