

JACINTA WANJIRU MUKII

Data scientist & Financial engineer

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[GitHub Portfolio](#) | [LinkedIn Profile](#)

SUMMARY

Dynamic and results-oriented professional with a background in Data Science and Financial engineering, seeking challenging opportunities to leverage expertise in data analysis, machine learning, and financial modeling to drive business success and innovation. Experienced in collecting, analyzing, and interpreting complex datasets to uncover actionable insights and forecast trends. Skilled in developing and implementing innovative solutions to optimize financial processes, mitigate risks, and maximize returns on investment.

WORK EXPERIENCE

Data Scientist

Sep 2023 - Present

- Collected data through Web Analytics (e.g., Google Analytics) and API integration for insights generation.
- Conducted data cleaning and preprocessing using pandas, handling missing values, outliers, and feature engineering.
- Performed exploratory data analysis and visualization using matplotlib, seaborn, and Tableau to extract actionable insights.
- Developed and implemented machine learning models (e.g., regression, classification) to facilitate data-driven decision making.

Accounting & Auditing Assistant

Oct 2021 - Oct 2022

- Utilized ERP systems (Microsoft Dynamics Navision, QuickBooks) for financial analysis and reporting.
- Recorded financial transactions, reconciled accounts, and generated financial statements in accordance with GAAP principles.
- Verified data integrity and conducted accountancy and bookkeeping tasks to ensure accuracy.

Financial engineer attaché

Jan 2021 - Oct 2021

- Conducted portfolio optimization by assessing risk-return profiles of various assets and recommending adjustments to maximize returns.
 - Performed quantitative risk assessments for real estate projects, identifying potential risks associated with commercial real estate transactions.
 - Developed key performance indicators, monitored financial performance of real estate assets, and prepared quantitative presentations for stakeholders.
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EDUCATION

Professional Data Science Certification

Apr 2023 - Nov 2023

Moringa School

- Professional application of Data analysis & Visualization and Machine Learning.

Skills: Data analysis & engineering - Python & R | Web Development basics - HTML and CSS | Database management - NoSQL, MySQL | Version Control - Git | API Integration | Data visualization - Tableau, Seaborn, matplotlib.

Financial Modeling & Valuation Analysis Certification

Sep 2022 - Dec 2022

Corporate Finance Institute

Skills: Business Valuation modeling I & II | Financial Analysis | Budgeting and forecasting | Accounting principles | Advanced Excel

Bachelor of Science in Financial engineering

Sep 2017 - June 2022

Jomo Kenyatta University of Agriculture and Technology

Skills: Economic | Statistics | Applied mathematics | Computer programming | Accounting

PROJECTS

[GitHub Link](#)

- **Swahili Audio prediction program (Automatic Speech Recognition, ASR, project)**
Developed an automated system for converting basic Swahili audio files into written text using speech recognition technology.
- **Real-Estate Market Trends (Time series prediction)**
Leveraged time series modeling by providing consultancy for a real-estate investment firm with actionable insights and forecasts pertaining to real estate price dynamics in various zip codes in USA.

- **Machine-Learning approach for informed public health intervention (logistic regression, XGBoost)**
Predicted the likelihood of individuals receiving their seasonal flu vaccines to help in understanding flu vaccine hesitancy so as to help design effective interventions.
 - **Predictive Modelling for home renovations (Simple & multiple linear regressions)**
Offered homeowners expert guidance on leveraging home renovations to enhance the estimated value of their properties.
 - **Analyzing film industry data (Exploratory data analysis)**
Used data from (box-office, rotten tomatoes, IMDB etc.), to strategize and advise on exploring the movie studio industry.
 - **Portfolio Optimization program (R programming)**
Constructed an optimal portfolio of stocks listed in the Nairobi Securities Exchange (NSE) during Covid – 19 pandemic.
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LANGUAGES

- English: Advanced Professional
 - Swahili: Advanced Professional
 - French: Basic
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REFERENCES

Available upon request.