



JACINTA WANJIRU MUKII

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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

Elevolt Limited

Sep 2023 - Aug 2024

Data Scientist

Nairobi, Kenya.

- Analyzed labor market trends to optimize talent sourcing strategies:
Reviewed and evaluated job market data, including in-demand skills, hiring cycles, and industry growth patterns, to optimize talent acquisition strategies. Delivered insights that contributed to a 20% increase in successful candidate placements.
- Improved candidate-client matching accuracy through data analysis:
Conducted comprehensive analyses of candidate profiles, including experience and skills data, to enhance matching accuracy. Achieved a 10% improvement in client satisfaction by aligning placements with client needs.
- Created data-driven visualizations to support decision-making:
Developed interactive dashboards using Tableau and Python (Matplotlib, Seaborn) to visualize key performance metrics. Presented actionable insights to management, driving improvements in recruitment and placement processes.
- Streamlined data preparation for advanced analytics:
Preprocessed, cleaned, and structured complex datasets to ensure data accuracy and integrity. Utilized Python (Pandas, NumPy) for efficient data manipulation, enhancing the reliability of data science analyses.

Mbaya & Associates

Oct 2021 - Oct 2022

Accounting & Auditing Assistant

Nairobi, Kenya.

- Ensured Accurate Payroll Processing for various clients: Accurately processed payrolls by calculating employee wages, deductions, and benefits, ensuring that all employees were paid correctly and on time and thus improving payroll processing efficiency by 20% for clients.
- Ensured Accuracy of Financial Records: By ensuring that all transactions were accurately recorded in the general ledger for the companies that we audited so as to prepare audit reports that accurately reflect the company's financial status and compliance.
- Uncovered financial discrepancies and irregularities in records, which enabled the company to proactively address issues before escalation, ensuring financial stability and integrity.
- Facilitated Financial Reporting: By preparing and organizing essential financial data, contributing to the creation of financial statements, balance sheets, and other reports that helped management make informed decisions.
- Accurately recorded financial transactions, including invoices, payments, and expenses, ensuring all data was entered correctly into the accounting system using ERP software such as QuickBooks, Microsoft Dynamics Navision.

Njemuwa Ltd.

Sep 2020 - Oct 2021

Financial engineer attaché

Nairobi, Kenya.

- 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.
- Study market dynamics, such as pricing trends, economic indicators, and demographic shifts, to provide actionable insights.

EDUCATION

Moringa School

Apr 2023 - Nov 2023

Professional Data Science Certification

Nairobi, Kenya

- **Coursework:** Data analysis & Visualization, Machine Learning, Artificial Intelligence, Web development, Deep Learning

Corporate Finance Institute

Sep 2022 - Dec 2022

Professional Financial Modeling & Valuation Analysis Certification

- **Coursework:** Business Valuation modeling I & II, Financial Analysis, Budgeting and forecasting, Advanced Excel, Accounting principles

Jomo Kenyatta University of Agriculture and Technology

Sep 2017 - Jun 2022

Bachelor of Science, Financial engineering

Kiambu, Kenya

- **Coursework:** Economics, Statistics, Applied mathematics, Computer programming, Accounting

PROJECTS

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, MDB 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.

SKILLS

- Python, R, HTML, CSS, Tableau, Pandas, Seaborn, Matplotlib, NLP, Time series, Regression, Classification, NoSQL, MySQL, SQL, Git, GitHub, Business Valuation, Financial Modeling, Budgeting, Forecasting, Microsoft Dynamics Navision, QuickBooks, Advanced Excel, Artificial Intelligence, Big Data., Deep Learning, TensorFlow, PyTorch