

Joel Wanjala Mande

Data Analyst

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PROFESSIONAL SUMMARY

- **Actuarial Science graduate** awaiting formal certification, with expertise in statistical modeling, predictive analytics, and financial risk management.
- Experienced in developing data-driven solutions and delivering actionable insights for optimizing decision-making.

WORK EXPERIENCE

Data Analyst

Aug 2024 – Present

Center for Data Science and Artificial Intelligence (DSAIL), DeKUT

Kenya

- Increased coffee yield forecasting accuracy by 30% through advanced statistical modeling in Python and R.
- Designed interactive dashboards with Power BI and Tableau, reducing analysis turnaround time by 25%.
- Conducted multivariate analyses of environmental and economic factors to identify yield fluctuations, offering stakeholders targeted mitigation strategies.
- Collaborated with interdisciplinary teams to develop predictive risk models that improved operational planning.
- Automated data extraction and cleaning processes, reducing manual effort by 40% and enhancing data reliability.
- Designed and facilitated technical workshops on advanced data visualization and forecasting techniques, equipping 20+ professionals with actionable skills that improved team efficiency by 15%.
- Compiled and presented detailed quarterly reports to stakeholders, highlighting key analytical insights that directly led to the implementation of three sustainable agricultural practices within regional farming communities.

EDUCATION

Dedan Kimathi University of Technology (DeKUT)

Nyeri, Kenya

B.Sc., Statistics & Actuarial Science

Oct 2021 – Aug 2024

- Achieved top 10% of the class.
- Conducted an independent study on commodity futures pricing using the Black-Scholes-Merton model.

TECHNICAL SKILLS

- **Programming Languages:** Python (NumPy, Pandas, Scikit-learn), R (ggplot2, dplyr), SQL
- **Data Visualization:** Power BI, Tableau, Matplotlib, Seaborn, Excel
- **Machine Learning:** Predictive Modeling, Regression, Classification, Clustering, Neural Networks
- **Actuarial & Quantitative Tools:** SAS, Prophet, VBA, Actuarial Models
- **Statistical Techniques:** Monte Carlo Simulation, Time Series Analysis, Multivariate Analysis, Hypothesis Testing
- **Financial Mathematics:** Present Value Analysis, Loss Modeling, Investment Forecasting

SOFT SKILLS

- Effective communication for presenting data-driven insights.
- Strong collaboration and teamwork in cross-disciplinary environments.
- Critical thinking for solving complex analytical challenges.
- Leadership in mentoring and facilitating professional development workshops.
- Adaptability to evolving project demands and fast-paced environments.

ACTIVITIES

- **Lead Mentor:** Guided over 50 students and professionals on machine learning and statistical analysis projects, achieving a 90% project success rate.
- **Project Developer:** Designed and implemented more than 10+ data science projects, including yield forecasting models and risk analysis algorithms, recognized for practical impact.
- **Collaborative Project Leader:** Partnered with industry experts to create pricing strategies that improved portfolio returns by 15%.
- **Research Presenter:** Delivered presentations on predictive modeling in commodity markets at university research seminars.
- **Workshop Facilitator:** Organized and conducted training sessions on statistical programming and data analytics for undergraduates.