PATIENCE NKATHA

Economics & Statistics Graduate | Data Analyst | Full-Stack Developer

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SUMMARY

Economics and Statistics graduate with a passion for data analysis, statistical modeling, and full-stack development. Currently enhancing technical skills through Software Engineering and Data Analysis certifications. Proven ability to develop analytical models, create data-driven insights, and deploy web applications. Looking to apply analytical expertise and technical proficiency to drive impactful solutions.

EXPERIENCE

Junior Data Analyst
Maara Sub-county Offices | May 2023 – August 2023 | Nairobi, Kenya

- Collected and analyzed data using SPSS and Excel to generate actionable insights on socio-economic trends.
- Developed reports and visualizations to support decision-making and policy formulation.
- Assisted in the development of forecasting models for regional economic activities.

Junior Web Developer
Crowdsource | October 2022 – October 2023 | Nairobi, Kenya

- Developed web applications with both frontend and backend functionalities using HTML, CSS, JavaScript, and Python (Flask).
- Optimized user interfaces to enhance user engagement and experience.
- Collaborated with cross-functional teams to ensure project milestones were achieved within deadlines.

AI Speaker & Tech Mentor
Hopecore Organization | January 2020 – September 2021 | Nairobi, Kenya

- Delivered AI-focused talks and workshops to introduce youth to the world of technology and AI.
- Organized training sessions to help youth explore opportunities in tech and AI.

EDUCATION

Bachelor of Economics and Statistics
Kirinyaga University | 2020 – 2024 | Nairobi, Kenya

- **Second Class Honors**

Certifications

- **Software Engineering (Ongoing)** | ALX | 2023 – Present
- **SQL for Data Science** | Coursera
- **Data Analysis** | Coursera**SKILLS**

Technologies:

- Python (Pandas, NumPy), R, SPSS, Excel, HTML, CSS, JavaScript, SQL, Flask, Git
- Data Visualization: Matplotlib, PowerBI, Tableau
- Machine Learning: Scikit-Learn, Linear Regression, Random Forest

Soft Skills:

- Communication, Problem-Solving, Analytical Thinking, Collaboration, Time Management

INDUSTRY EXPERTISE

- Data Analysis & Modeling
- Full-Stack Development
- Statistical Analysis
- Data Visualization
- Machine Learning

PROJECTS

E-Shop API (Task Management App)

- Full-stack task management app with user authentication, database design, and payment gateway integration using Flask and SQL.

Market Analysis Project

- Conducted a data-driven market analysis for forecasting consumer behavior using regression analysis and presented actionable insights for decision-makers.

AI House Price Prediction

- Built and deployed an AI-based model to predict house prices using machine learning algorithms (Linear Regression, Random Forest) with Python (Pandas, Scikit-Learn).
- Deployed the model as a web application for real-time predictions using Flask.

STRENGTHS

- **Data Analysis & Modeling**: Expertise in statistical modeling and data analysis using Python, R, and Excel to derive actionable insights.
- **Full-Stack Development**: Skilled in building end-to-end applications using Flask and SQL, focusing on user experience and functionality.
- **Machine Learning**: Knowledgeable in machine learning algorithms for predictive analytics and optimization.
- **Problem Solving**: Strong analytical thinking, capable of identifying issues and proposing data-driven solutions.
- **Communication**: Ability to explain complex data concepts clearly to non-technical stakeholders.