**Catherine Kiptui**  
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**PERSONAL STATEMENT**

Energetic and results-driven instructor with a strong mathematical background and passion for data science. Skilled in transforming complex concepts into actionable insights, I excel at leveraging data to guide decision-making and problem-solving. With a deep commitment to education, I effectively engage students and promote data-driven solutions in dynamic environments.

**EDUCATION**

**Certificate in Data Science**  
Moringa School, *October 2024 – Present*

**Bachelor of Education Science (Mathematics & Chemistry)**  
Egerton University, *2003 – 2007*  
Second Class Upper Division

**Kenya Certificate of Secondary Education (B+)**  
Pemwai Girls High School, *1998 – 2001*

**WORK EXPERIENCE**

**Data Science & Educational Mentor**  
Various Secondary Schools, Kabarnet, Kenya  
*2007 – Present*

* Taught Mathematics and Chemistry to students in various schools, including Kilimo High School, Yemit Girls, and Lake Bogoria Secondary School.
* Mentored students in athletics, with many pursuing sports careers.
* Guided students through stress management and performance expectations, helping them achieve academic and personal growth.
* Delivered workshops on sports psychology, stress management, goal setting, and teamwork, integrating data visualizations.
* Provided career counseling for young athletes, including workshops on performance analytics and career development.

**Data Science Projects**

* **Movie Industry Trends Analysis**: Analyzed box office data to identify trends in top-performing genres and provided market analysis for business investment in the film industry. [GitHub Link]
* **Traffic Stop Data Analysis**: Used ensemble methods to model traffic stop data, predicting arrest outcomes based on various factors (e.g., armed/dangerous status). The dataset included 62,800 rows and 23 columns.

**TECHNICAL SKILLS**

* **Programming Languages**: Python (Pandas, NumPy), R
* **Data Visualization**: Power BI, Tableau, Looker
* **Data Management**: AWS, Google BigQuery, Snowflake
* **Data Analysis**: Statistical methods, data modeling, forecasting techniques
* **Tools**: Jupyter Notebooks, Excel, NetworkX (for network analysis)

**CERTIFICATIONS**

* **Data Science** | Moringa School, *October 2024 – Present*
* **Senior Master IV (C4/T-Scale 9)** | Teachers Service Commission, *May 2021*
* **Teacher Empowerment Skills** | East African Institute of Professional Counselling, *May 2021*
* **Athletics Referee** | Baringo County Secondary Schools Sports Association, *May 2018*
* **National Level ONE Coaching** | Kenya Volleyball Federation, *Sept 2015*
* **Gender, Poverty, and Development** | Egerton University, *August 2007*
* **Computer Studies** | World Wide Information Technology, *February 2003*

**ACHIEVEMENTS**

* Transformed students' academic lives in Mathematics and Chemistry, preparing them for life beyond school.
* Mentored athletes, helping many pursue professional careers in sports.
* Provided data-driven workshops and career counseling to young athletes.
* Leveraged psychological insights to improve team cohesion and coaching effectiveness using performance analytics.
* Developed courses combining data science and counseling psychology for applied team and individual development.

**HOBBIES AND INTERESTS**

* Data analysis and visualization
* Sports psychology and performance analytics
* Teaching and mentoring
* Engaging in critical thinking and problem-solving exercises
* Exploring new technologies in data science

**REFERENCES**

William Okomba  
Technical Mentor, Moringa School  
william.okomba@moringaschool.com