**CURRICULUM VITAE**

**LAUREEN CHEPKOECH MARUSOI**

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**CAREER OBJECTIVES**

I am a data enthusiast with an unwavering commitment to continuous learning and an innate ability to apply common sense when translating raw data into actionable business insights. My skill set encompasses the complete data lifecycle: from proficiently collecting, meticulously analyzing, and astutely interpreting data to crafting and implementing machine learning algorithms. I excel in the realm of data management, with a keen eye for detail and the flexibility to thrive both in collaborative team environments and as an independent contributor. My extensive knowledge spans programming, statistics, analytics, and data analysis, allowing me to tackle complex data challenges with confidence. I am deeply passionate about leveraging the boundless potential of data and cutting-edge AI technology to shape a better and more convenient future. My mission is to harness the power of data to drive innovation and deliver tangible results for organizations and society at large.

**EDUCATION**

* + **Moringa School** – Nairobi, Kenya

*Data Science Bootcamp* | August 2023 - February 2024

* + Developed expertise in data preprocessing, exploratory data analysis, machine learning, and data visualization.
  + Successfully completed projects with real-world datasets.
  + Gained proficiency in programming languages such as Python and R.
  + **The University of Nairobi** – Nairobi, Kenya

*Bachelor of Science in Chemistry* | September 2019 - September 2023 (Graduated)

* + Specialized coursework in mathematics, statistics, risk assessment, and financial modeling.
  + Skills in actuarial software for data analysis and modeling.
  + **Anester secondary school** – Nakuru, Kenya

*Kenya Certificate of Secondary Education (KCSE)* | Graduated in [2018]

**SHORT COURSES**

* + MANU | September to December 2022

*Data Science Packages*

**WORK EXPERIENCE**

* + **Kenya Bureau of Standards** – Kisumu, Kenya

**Role: Laboratory Intern**| July 2023 – October 2023

**Accomplishments:**

* **Moisture Content Testing**: Conducted moisture tests on baked goods (bread, cakes, cookies) to ensure quality standards.
* **Salinity Analysis**: Utilized titration for salt analysis in water, contributing to water quality assessment.
* **Ash Testing**: Executed ash tests on bread to assess mineral content and product quality.
* **NaCl Testing**: Analyzed sodium chloride levels in food products like crisps to ensure compliance.
* **Chemical Analysis in Soap Production**:
* Determined total fatty matter, ensuring quality control.
* Analyzed alkaline content to optimize formulations.
* Conducted tests for free caustic content for product safety.
* **Fat Analysis in Milk**: Determined fat content in milk and dairy products for nutritional information.

**RESEARCH EXPERIENCE (PROJECTS)**

*Successfully completed projects at Moringa School:*

1. **House Price Prediction**: [Link to Project](https://github.com/Perception-ui/phase_4)

 Utilized machine learning techniques to predict house prices based on various features.

1. **I built a model to predict customer churn**: [Link to Project](https://github.com/Lawrync/PHASE-3---PROJECT)

 Developed predictive models to predict customer churn based on relevant factors.

1. **Wine quality prediction**[: Link to Project](https://github.com/Lawrync/Project_on_wine_quality_prediction)

 Analyzed wine data to predict and assess.

1. **Market Analysis Dashboard (Power BI):** 
   * + Developed an interactive Power BI dashboard for market trends and competitor performance.
     + Implemented calculated fields and parameters in Power BI to allow users to customize views based on specific criteria.
2. **Movie Recommendation System**: [Link to Project](https://github.com/Perception-ui/phase_4)

 Created a recommendation system for movies based on user preferences and historical data, enhancing user experience and engagement.

1. **AI-chatbot-for-eCommerce-Store**: [Link to Project](https://github.com/MwangiWambugu/AI-chatbot-for-eCommerce-Store)

 Implemented an AI chatbot for eCommerce using the Rasa framework. Enhanced customer engagement, provided product recommendations, and streamlined transactions. Demonstrated expertise in leveraging advanced technology to improve user experience and boost sales.

**SKILLS**

* + **Data Analysis**: Data preprocessing, feature engineering, exploratory data analysis.
  + **Machine Learning**: Regression, classification, clustering, and model evaluation.
  + **Programming**: Proficient in Python, R, Apache Spark, and Hadoop for Big Data.
  + **Tools**: Familiarity with libraries such as Pandas, NumPy, Scikit-learn, Matplotlib, Excel, Tableau, and Power BI.
  + **Communication**: Clear verbal and written communication skills.  **Teamwork**: Collaborative and effective team player.

**REFERENCES**

* Dr. David Kariuki | The University of Nairobi | Email: [Davidkariuki@uonbi.ac.ke](mailto:Davidkariuki@uonbi.ac.ke)
* Dr. Charles Mirikau | The University of Nairobi | Email: cmirikau@uonbi.ac.ke