

# Renox Omache

[LinkedIn](#) | [2547-969-382-15](#) | [Portfolio](#) | [omacherenox@gmail.com](#) | [GitHub](#)

## Skills

- **Data Mining and Machine Learning:** Familiarity with machine learning concepts and algorithms, including supervised/unsupervised learning, classification, regression, and clustering.
- **Data Analysis:** Proficient in analyzing large datasets, identifying trends, and drawing actionable insights using statistical methods, data visualization techniques, and data mining algorithms.
- **Data Visualization:** Experienced in creating visually appealing and informative charts, graphs, and dashboards using Tableau, Power BI, and Matplotlib.
- **Data Cleaning and Preparation:** Skilled in handling missing values, outliers, and data inconsistencies, and proficient in data preprocessing tasks like feature engineering, transformation, and normalization.
- **Problem Solving:** Strong analytical and problem-solving skills, adept at breaking down complex problems, identifying key factors, and proposing practical solutions using data analysis.
- **Collaboration and Communication:** Effective team player with excellent communication skills, capable of collaborating with cross-functional teams and presenting findings concisely.
- **Tech Stack:** Python (Pandas, NumPy, SKLearn), R, SQL (MySQL, PostgreSQL), Power Apps (Power BI, Azure), Cloud (Amazon EC2, Amazon S3, Docker, Kubernetes, Kubeflow, Big Query)

## Experience

### Research Analyst (Volunteer)

NAYA

05/2020 – Current

- Conducted research and collected data related to school children's nutritional needs and meal programs, utilizing a variety of data collection methodologies.
- Analyzed and interpreted data to identify trends, patterns, and opportunities for improving the efficiency and impact of meal programs.
- Developed data-driven reports, dashboards, and presentations to communicate key findings and recommendations to stakeholders.
- Collaborated with program managers and other team members to evaluate and monitor the effectiveness of meal programs.
- Assisted in designing surveys and questionnaires to gather feedback from beneficiaries and stakeholders, ensuring a holistic understanding of program impact.
- Ensured data confidentiality and adherence to ethical guidelines when handling sensitive information related to beneficiaries.
- Utilized data visualization techniques to create easily digestible and visually appealing reports, enabling effective decision-making by management.

### ML Intern

Panda Studio

07/2020 – 05/2021

- Employed data-driven decision-making to increase employee satisfaction and reduce turnover rate.
- Collaborated with the development team to design and develop reusable software components for machine learning, enhancing efficiency and reducing defects.
- Prioritized customer and partner needs using a data-driven approach, resulting in the creation of data science dashboards that improved decision-making and business outcomes.
- Ensured reliability and security of machine learning services through active monitoring, leading to improved uptime.
- Drafted detailed testing reports to optimize team performance and improve test coverage by utilizing data insights.
- Conducted comprehensive analysis, diagnosis, and resolution of software-related issues, identifying root causes and implementing corrective solutions.

### Intern

PwC

Nairobi, Kenya

02/2017 - 10/2017

- Collaborated with the Virtual Team Management team to learn and implement effective time management and organizational skills.
- Demonstrated strong attention to detail and the ability to work efficiently and independently on assigned tasks.
- Gained valuable experience in the professional services industry and learned about the importance of effective project coordination and team management.

## Education

### Bachelor in Statistics

University of Nairobi

09/2017 - 12/2021

**Core courses:** Time series analysis, Statistical theory, Operations research, Game theory, Machine learning algorithms, Probability theory, Point estimation, Bayesian theory, Artificial Neural Networks, Transfer Learning

### Software Engineering (Boot Camp)

ALX

06/2020 – 04/2021

**Core courses:** Computer Science fundamentals, Data Structures & Algorithms, Application design & development, Frontend & Backend development, Web APIs, Machine Learning & Artificial Intelligence

### Secondary School

Starehe Boys' Centre

02/2012 – 11/2016

## Others

**Project:** Implemented sentiment analysis of Twitter data for Kenya's General Election 2022, utilizing Python for data preprocessing, sentiment classification, and topic modeling, and Power BI for visualization. Published the analysis on social media, garnering significant attention and engagement from a wide audience.

**Certifications:** Neural Networks and Deep Learning (*Deeplearning.ai*), Professional ML Engineer (*Google*), AWS Certified Cloud Practitioner (*AWS*).

**Hobbies & Achievements:**

- President’s Award Gold Achiever: Recognized for outstanding achievement in various personal and academic areas, including community service, leadership, and personal development.
- Technology Blogging: Regularly write and publish blog posts on technology topics, sharing knowledge and insights with a community of readers.