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OSCAR KIAMBA

Junior Data Scientist

Portfolio: oscarkiamba.online
github.com/pyscar
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Junior Data Scientist with a passion for finding the stories hidden in data. I enjoy building systems from the ground up, from designing web scrapers for data collection to developing machine learning models. I am a hands-on developer focused on transforming raw information into automated pipelines and interactive dashboards that are practical, clean, and easy to use.

SKILLS

Technical Areas	Data Analysis, Machine Learning, Deep Learning, NLP, Statistical Modelling, Data Visualization, Artificial Intelligence, Predictive Analytics, Web Scraping.
Programming Languages	Python, SQL, C, C++.
Tools / Databases / OS	Jupyter Notebook, Google Colab, VS Code, Power BI, GitHub.

RESEARCH PUBLICATIONS

Cross Domain Intrusion Detection Framework with ML and Pre-Trained DNN-Based Modular Ensemble for IoE Ecosystems
Under Review

Improving Military Object Detection Under Noisy Conditions Using Spatial Denoising and ResNet-50 Deep Features
Accepted for publication in IEEE Xplore Proceedings — International Conference on Emerging Trends in Advancements and Applications of Computational Intelligence Techniques (ETAICT 2026)

ACADEMIC PROJECTS

AI-Based Trading System Ongoing
Python, Quantitative Analysis

- Developing a systematic trading framework for forex and futures markets.
- Implementing backtesting, position sizing, and risk management logic.
- Optimizing strategy performance using historical market data.

Web Scraping & Data Collection Project [Project Link]
Python, Web Scraping, Data Pipelines

- Designed and implemented an end-to-end Extract-Transform-Load (ETL) pipeline.
- Scraped large-scale real-estate data from MagicBricks.
- Delivered clean, structured, analytics-ready datasets via a Streamlit interface.

Interactive Sales Analytics Dashboard [Project Link]
Tableau, Power BI, Data Visualization

- Built interactive dashboards to monitor revenue, profit, and sales trends.
- Implemented dynamic filters for region, time period, and product categories.
- Transformed raw sales data into actionable business insights.

Movie Review Sentiment Analyzer [Project Link]
Python, NLP, Machine Learning

- Developed a sentiment classification model for movie reviews.
- Applied text preprocessing, TF-IDF vectorization, and supervised ML models.
- Evaluated performance using accuracy, precision, recall, and F1-score.

WORK EXPERIENCE

Data Science Intern Jun 2025 — Aug 2025
Krutanic Solutions Bengaluru, India

- Applied statistical methods and machine learning algorithms to predictive and classification problems.
- Gained hands-on experience in feature selection, model training, performance evaluation, and data visualization.
- Worked with real-world datasets across the full data analysis pipeline, including data collection, cleaning, preprocessing, and exploratory data analysis using Python.

Data Analyst / Database Assistant Jul 2022 — May 2024
Kirsty Writers Nairobi, Kenya

- Designed, managed, and maintained relational databases using PostgreSQL for operational and academic reporting.
- Queried and analyzed business datasets using SQL and Python to support data-driven decision-making.
- Built dashboards and visual reports to communicate insights clearly to non-technical stakeholders.

- Performed scheduled and unscheduled maintenance on Dornier 228, Embraer 120, and Beechcraft 1900 aircraft in compliance with aviation safety standards.
- Assisted in engine maintenance and overhaul procedures for Honeywell TPE331, PT6A, and PW118 engines.
- Installed and removed aircraft subsystems with strict adherence to technical manuals and safety protocols.
- Collaborated with engineers and technicians to ensure aircraft airworthiness and operational reliability.

EDUCATION

B.Tech in Computer Engineering (AI & ML) , <i>C. V. Raman Global University, Bhubaneswar, Odisha, India</i>	Expected June 2026
Diploma in Aeronautical Engineering (Airframes & Engines) , <i>East Africa School of Aviation, Nairobi, Kenya</i>	2016 – 2019
<i>Study in India (SII) Scholarship</i>	2022

CERTIFICATIONS

Python for Machine Learning and Data Science Masterclass <i>Key skills: Scikit-Learn, Pandas, NumPy, Deep Learning, Matplotlib</i>	<i>Udemy</i>
Mastering Data Structures and Algorithms Using C and C++ <i>Key skills: Computational Complexity, Memory Management, Linked Lists, Trees, Graphs</i>	<i>Udemy</i>
Data Analysis using python <i>Key skills: Python, Jupiter notebook, Data Cleaning, Spreadsheet Analysis, Visualization</i>	<i>free code camp</i>
Self-Driving Cars Specialization <i>Key skills: Computer Vision, Sensor Fusion, Motion Planning, Control Systems</i>	<i>University of Toronto / Coursera</i>

REFERENCES

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