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# OSCAR KIAMBA

## Data Scientist

Portfolio: [oscarkiamba.online](https://oscarkiamba.online)  
[github.com/pyscar](https://github.com/pyscar)  
[linkedin.com/in/oscar-kiamba](https://linkedin.com/in/oscar-kiamba)

Data Scientist with a background in AI/ML Engineering and a proven track record of building end-to-end data systems from the ground up. I specialize in architecting automated ETL pipelines and predictive models that bridge the gap between complex datasets and actionable business strategy. A hands-on builder committed to delivering clean, production-ready solutions from high-scale web scraping to interactive analytics that drive data-informed decisions.

### SKILLS

Technical Areas	Data Analysis, Machine Learning, Deep Learning, NLP, Statistical Modelling, Data Visualization, AI, 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

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

## CERTIFICATIONS

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

## REFERENCES

**Antaryami Sahoo**  
*Circle Relationship Head, HDFC Aditya Birla Sun Life Insurance*  
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