MAURO A. VIEIRA SIMÃO

IT(Data Science) Student

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PROFILE

Information Technology (Data Science) student with strong foundations in Python programming, data analysis, machine learning, and enterprise databases. Hands-on experience building data-driven projects involving data cleaning, visualization, and predictive modeling. Highly disciplined, analytical, and motivated to grow within an internship, graduate, or junior technical role.Open to relocate.

EDUCATION

Bachelor of Science in Information Technology – Data Science Stream
In Progress | 2024 – 2026

Higher Certificate in Information Systems (Data Analysis)
2023

National Senior Certificate (Matric)
NSA Colégio Angola – 2019

TECHNICAL SKILLS

Programming & Data

- Python (Data Structures & Algorithms)
- Scientific Computing (NumPy)
- Data Analysis (Pandas)
- Feature Engineering & Data Cleaning
- Exploratory Data Analysis (EDA)

Machine Learning

- Supervised Learning (Classification)
- Unsupervised Learning (Clustering)
- Model Evaluation & Validation

- Scikit-learn

Databases & Systems

- SQL (Relational Databases)

- **Oracle Database**

- Database Design & Normalization

- Web Server Management

- Linux Fundamentals

Development & Tools

- Git & GitHub

- HTML, CSS, JavaScript

- Data Visualization (Matplotlib, Seaborn)

- Virtualization (Oracle VirtualBox)

- AWS (Foundational Knowledge)

Academic and Practical Projects

- ➢ **AI User Behavior Prediction | Python, Scikit-learn, Pandas, Matplotlib**
- ➢ **GitHub: github.com/mavs230/ai-user-behavior-prediction**
- Built an end-to-end ML pipeline to classify mobile user behavior using real-world dataset
- Engineered 15+ features including session duration and interaction frequency, improving model accuracy by 12%
- Implemented Random Forest and Logistic Regression models, achieving 85% prediction accuracy
- Conducted thorough model evaluation using cross-validation and confusion matrix analysis

- ➢ **Mall Customer Segmentation | Python, K-Means Clustering, EDA, Seaborn**
- ➢ **GitHub: github.com/mavs230/mall_machine_learning**
- Applied unsupervised learning to segment 200+ customers into 5 distinct groups based on spending patterns
- Reduced data dimensionality using feature scaling and PCA, improving cluster separation by 25%
- Created visualization dashboards enabling business stakeholders to identify high-value customer segments
- Provided actionable insights for targeted marketing strategies

- ➢ **Netflix Data Analysis & Visualization | Python, Pandas, NumPy, Data Wrangling**
- ➢ **GitHub: github.com/mavs230**
- Cleaned and transformed 8,000+ record dataset, handling 15% missing values through imputation techniques
- Identified content trends showing 40% increase in documentary releases from 2018-2022
- Developed interactive visualizations comparing genre distribution across regions and release years
- Automated data processing pipeline reducing manual analysis time by 60%

- ➢ **Inventory Management System| Python, OOP, CLI Application Development**
- ➢ **GitHub: github.com/mavs230/inventory-management-system**
- Developed command-line application managing 500+ product inventory with sales tracking
- Implemented object-oriented design patterns enabling scalable product and category management
- Automated profit/loss reporting, reducing manual calculation errors by 90%
- Added data persistence layer allowing export of inventory reports in CSV format

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EXPERIENCE

Brazilian Jiu-Jitsu Coach
Home-Based Dojo | Durban
September 2023 – Present

- Coached and mentored students in structured training environments

- Developed strong leadership, communication, and analytical skills

- Tracked performance and adapted training strategies accordingly

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CORE STRENGTHS

- Analytical Thinking

- Problem Solving

- Discipline & Consistency

- Communication

- Team Collaboration