Muhammed John

MS STUDENT IN DATA SCIENCE AND AI ENGINEERING

PROFESSIONAL SUMMARY

Junior Data Scientist with strong experience in building machine learning solutions and developing interactive data apps. Proficient in Python, TensorFlow, and Streamlit, with a solid foundation in statistics, data preprocessing, and model evaluation. Known for solving real-world challenges like customer churn, price prediction, and marketing optimization. Seeking a data science internship to apply skills in a practical, fast-paced setting.

CONTACTS

📍 Fes, Morocco 📞 +212 647 466 338

✉ muhammedjohn3@gmail.com

🌐 Portfolio 💻 GitHub 🔗 LinkedIn

TECHNICAL SKILLS

- **Languages:** Python, R, SQL, Java, JavaScript, C/C++

- **ML & AI:** scikit-learn, TensorFlow/Keras, XGBoost, SMOTE, GridSearchCV

- **Data Processing:** pandas, NumPy, feature engineering, scaling, one-hot encoding

- **Visualization:** Matplotlib, Seaborn, Plotly, Excel dashboards

- **Deployment & Tools:** Streamlit, Flask, FastAPI, Git, Docker, SQLite, HTML/CSS, MySQL Workbench, Linux

- **Environments:** Jupyter Notebook, VS Code

EDUCATION

ENSAF – École Nationale des Sciences Appliquées de Fès

MS in Data Science & AI Engineering

2022 – Present

Nusrat Senior Secondary School – The Gambia

High School Diploma

2018 – 2021

Open to full-time or part-time internships (remote/on-site/mobile)

References available upon request.

PROJECTS

Customer Churn Prediction (Streamlit App)
Built a neural network using TensorFlow to predict telecom customer churn.
Applied SMOTE for balancing and risk thresholding for business-aligned outputs.
Developed a Streamlit web app with input interface.

House Price Estimation – Bangalore Housing Data
Engineered features from 10,000+ listings; trained regression models ($R^2 \approx 0.88$).
Built predictions via a Flask API integrated with a HTML/CSS/JS frontend.

UK Road Accident Analytics Dashboard
Cleaned and visualized 300K+ accident records in Excel.
Analyzed trends by location, severity, and time to drive road safety decisions.

Optimizing Ad Spend with Machine Learning
Analyzed marketing spend across TV, Radio, and Newspaper using regression models ($R^2 = 0.988$) to identify top-performing channels
Delivered actionable insights for smarter budget allocation through a visual, real-world Jupyter Notebook.

Student Management System (Java + MySQL)
Developed a GUI-based desktop app for student record management.
Integrated database CRUD operations.

Portfolio Website – The John Archive
Built a personal site in HTML/CSS/JS to host projects and resume.
Responsive design with GitHub Pages deployment.

EXPERIENCE & LEADERSHIP

Secretary General - Gambian Students' Association in Morocco (GASAM) 2024 – Present
Co-lead advocacy for 100+ Gambian students with Moroccan universities and key stakeholders.
Collaboratively plan and deliver high-impact cultural, academic and networking events.
Mentor new committee members, and manage digital communications via website, newsletter & social media.

CERTIFICATIONS

- **SQL & Database Design** – Oracle Academy, HackerRank
- **Generative AI & Data Literacy** – DataCamp
- **Machine Learning & Feature Engineering** – Kaggle
- **Python** – HackerRank, Kaggle
- **Problem Solving** – HackerRank
- **Software Engineer Intern** – HackerRank
- **Responsive Web Design** – freeCodeCamp
- **JavaScript Algorithms and Data Structures** – freeCodeCamp

LANGUAGES

- **English (Fluent)**   • **French (Conversational)**   • **Spanish (Beginner)**