

Hicham Alaoui

Data Analyst

— +212 762 389 821 — halaoui@insea.ac.ma — linkedin.com/in/hicham-alaoui-08ba35206 — github.com/hicham-alaoui0

Summary — Analyst who owns analytics modules end-to-end: requirements with stakeholders, data wrangling in Python/R/SQL, statistical inference & modeling, and packaging insights as dashboards/MVPs with clear slide synthesis. Delivered real-time analytics on a trading floor, public-sector BI, and sustainability NLP. Comfortable training users and partnering with cross-functional teams to ship usable solutions quickly.

Education

INSEA – Rabat

2022 – 2025

State Engineer in Applied Economics, Statistics & Big Data

Professional Experience

Société Générale ATS

Mar 2025 – Present

Data Science Intern → Equity Trading Analyst / Data Analyst (Full-time)

Casablanca

- Owned a real-time analytics pipeline (*Python, Airflow*) to recalibrate pre-trade limits; packaged outputs into desk-ready controls and monitoring views.
- Explored and modeled large trade datasets to detect anomalies and drivers; partnered with traders & risk to prioritize fixes with measurable impact.
- Built interactive Streamlit/Grafana dashboards and automated checks, cutting manual processing time; maintained docs and trained end-users.
- Worked with trading, risk, and IT to align data sources, SLAs, and deployment cadence; ensured compliance and reproducibility (*Git, Docker*).

gaea21 (NGO)

Jun 2024 – Sep 2024

Data Scientist (Internship)

Geneva

- Built forecasting models (*XGBoost, LSTM*) for CO₂ emissions and delivered actionable insights to non-technical stakeholders.
- Automated report generation (NLP) supporting 20+ sustainability articles and guides; synthesized results in concise slides.
- Coordinated the rollout of a text-analysis microservice on AWS; collaborated across Geneva, Casablanca, and London to meet deadlines.

Haut-Commissariat au Plan (HCP)

Jul 2023 – Aug 2023

Data Analyst (Internship)

Rabat

- Modeled and migrated socio-economic data to PostgreSQL; improved data quality, indexing, and query performance.
- Produced indicators and time-series analyses (e.g., ARIMA/ARDL) for policy evaluation; contributed to national reporting.
- Built and automated Power BI dashboards tracking social KPIs to support decision-making.

Skills

Programming Python, R

Statistics Inference, time-series (ARIMA/ARDL)

Data Wrangling pandas, NumPy, Statsmodels

Delivery Git, Docker, Airflow; documentation, user training

SQL & DB PostgreSQL, MySQL, SQL Server, BigQuery

Communication Stakeholder interviews, slide synthesis

Viz & Apps Power BI, Tableau, Streamlit, Grafana

Optimization Linear optimization (introductory)

Certifications

- Python for Everybody Specialization – [University of Michigan](#)
- Neural Networks & Deep Learning – [DeepLearning.AI](#)
- Prepare Data for Exploration – [Google](#)
- Python Project for Data Science – [IBM](#)

Nov 2023

Dec 2023

Apr 2023

Mar 2023

Selected Projects

FarmVision

2024

- Decision-support MVP for vertical farms: end-to-end pipeline (*Python/SQL*) and Streamlit front-end; reached 92% accuracy on pilot data (SkyFarms).

Equity Signals – XGBoost

2018–2023

- Feature-engineered model on 300k intraday rows; delivered calibration plots and reports; code published on GitHub.

Languages

Arabic — French (C2) — English (C1)