

# Hicham Alaoui

## Data Analyst

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**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 CO<sub>2</sub> 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  
**Data Wrangling** pandas, NumPy, Statsmodels  
**SQL & DB** PostgreSQL, MySQL, SQL Server, BigQuery  
**Viz & Apps** Power BI, Tableau, Streamlit, Grafana

**Statistics** Inference, time-series (ARIMA/ARDL)  
**Delivery** Git, Docker, Airflow; documentation, user training  
**Communication** Stakeholder interviews, slide synthesis  
**Optimization** Linear optimization (introductory)

## Certifications

- Python for Everybody Specialization – **University of Michigan** Nov 2023
- Neural Networks & Deep Learning – **DeepLearning.AI** Dec 2023
- Prepare Data for Exploration – **Google** Apr 2023
- Python Project for Data Science – **IBM** 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)