

Ali Lazraq

Data Scientist

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EXPERIENCES

CIH BANK

Casablanca, Morocco

Data Science

Jan 2025 - Current

- Developed a full-scale churn prediction system using LightGBM, achieving 90.42% recall prioritizing client retention.
- Engineered end-to-end modular Python pipelines for data extraction via Dremio, preprocessing, feature engineering, and model deployment.
- Designed interactive Streamlit dashboard for business stakeholders to visualize churn insights and intervention plans.
- Implemented SHAP for model interpretability and MLflow for rigorous experiment tracking and version control.

CAPSTONE PROJECT

Ifrane, Morocco

IoT-Based Fleet Management & Driver Monitoring

Sep 2024 - Dec 2024

- Built a real-time fleet management system integrating Teltonika FM5300, React, Spring Boot, and MySQL.
- Directed the integration of GPS tracking, geofencing, and predictive maintenance features to improve fleet efficiency.
- Drove business analytics initiatives to identify cost-saving opportunities and enhance operational decision-making.
- Designed and maintained a live dashboard for real-time alerts, KPIs, and vehicle diagnostics.
- Integrated machine learning models to optimize fleet costs and route planning.

MENTOR Center of Learning Excellence, AUI

Ifrane, Morocco

Part-time job

Sep 2024 - Dec 2024

- Mentored incoming students in academic planning, leadership, and soft skill development.
- Acted as a peer leader and first-line support for academic and career-related queries.

CIH BANKATHON COMPETITION

Ifrane, Morocco

Data Science Participant

Nov 2024

- Led a team in designing a customer segmentation pipeline using clustering to personalize CIH Bank's product offers..
- Developed and showcased a complete Streamlit web app that earned executive recognition and resulted an internship offer.

LEYTON

Casablanca, Morocco

Data Science & Software Engineering Intern

Summer 2023

- Conducted strategic client density analyses using Power BI, providing the executive team with actionable insights.
- Independently designed and deployed a Chrome Extension using JavaScript to enable real-time consultant notifications, reducing average response time.

INFOMINEO RESEARCH CASE COMPETITION

Ifrane, Morocco

Participant

Oct 2023

- Represented the Computer Science track in a multidisciplinary team tasked with building a data-informed solution for a global business challenge.
- Gained experience in cross-cultural communication, international business models, and innovation under pressure.

EDUCATION

Al Akhawayn University

Ifrane, Morocco

Bachelor of Science in Computer Science with a Minor in Business Administration.

Sep 2020 - Dec 2024

Aspiring Data Scientist motivated by real-world challenges at the intersection of data and impact. Passionate about interdisciplinary collaboration, international exchange, and using technology to improve decision-making in public and private sectors.

EXTRACURRICULAR ACTIVITIES

AMERICAN FOOTBALL TEAM - ATLAS LIONS AUI:

Ifrane, Morocco

Played competitive matches, enhancing teamwork & strategic thinking.

Sep 2023 - Dec 2024

PRESIDENT - NAUTICAL SURFING CLUB AUI:

Ifrane, Morocco

Organized and managed multiple surfing trips & sponsorships.

Jan 2023 - Sep 2024

SKILLS, ACTIVITIES & INTERESTS

Languages: Arabic, English, French

Programming: Python, SQL, JavaScript, Java, C

Data Science & ML: LightGBM, XGBoost, SHAP, MLflow, Streamlit, Pandas, NumPy, Scikit-learn, Power BI

Frameworks & Tools: React, Spring Boot, Docker, FastAPI, Git, Dremio, Web Scraping, Streamlit

Soft Skills : Critical Thinking, Leadership, Problem-Solving, Communication, Teamwork, Agile Mindset