



# ILYAS MODNI

## ABOUT

- ✉ modniilyas@gmail.com
- 🏠 CASABLANCA, MOROCCO
- 📅 24 years old
- ☎ +212(0) 648 373 492

## LANGUAGES

- English Upper Intermediate
- French Advanced
- Arabic Advanced

## INTERESTS

- Sports : Football, Swimming
- Reading Scientific Articles
- Active Participation in Online Learning

## SKILLS

- Programming Languages
  - Python, SQL, Java (JEE)
- Business Intelligence Tools
  - Power BI, Tableau
- Web Development Tools
  - React, Flask
- Data Visualization Tools
  - Matplotlib, Seaborn, Plotly, Dash
- Data Analysis Tools
  - Pandas, NumPy
- Machine Learning
  - Supervised Learning, Regression, Classification, AutoML
  - Time Series Forecasting
  - Facial Recognition Technology
- Data Preprocessing
  - Data Cleaning, Feature Engineering
- Big Data Tools
  - Apache Hadoop, Hive, NIFI
  - Databases : MongoDB, Hbase, MySQL

## SUMMARY

I'm a second-year Ph.D. student at Mohammadia School of Engineering, focusing on Road Safety through Artificial Intelligence. My research uses machine learning to develop predictive models that address road safety challenges in Morocco, identifying accident risk factors and supporting data-driven safety strategies. Engaged in conferences and collaborative projects, I strive to create impactful solutions for public safety.

## EDUCATION

**Ph.D. Student in Road Safety through Artificial Intelligence** Since 2023

Mohammadia School of Engineering-EMI Rabat, Morocco

- Second-Year Ph.D. Student

**Master's in Data Science and Big Data** 2023

Faculty of Science Ben M'sik -FSBM Casablanca, Morocco

- Specialization: Big Data with Honors

**Bachelor's in Mathematics and Informatics Sciences** 2021

Faculty of Science Ben M'sik -FSBM Casablanca, Morocco

- DataBases Option with Honors

**High School Diploma in Experimental Sciences** 2018

Baroudi High School Casablanca, Morocco

- Scientific Option with Honors

## WORK EXPERIENCE

**Data Analyst & Market Research Team Member** Since November 2022

Manageering Inc Waterloo, Ontario, Canada

- Collaborating with a cross-functional team on a research project focused on creating a Moroccan platform for smart home security.
- Utilizing BI & Data Analyst techniques to analyze the smart home security market, including user behavior and preferences.
- Leveraged this program to enhance my entrepreneurship and management skills, further preparing me for a promising future.

**Data Scientist Intern** From February 2023 to August 2023

Leoni Berrchid, Morocco

- Utilized Business Intelligence (BI) tools to create dynamic visualizations of real-time Key Performance Indicators (KPIs) for rapid decision-making.
- Developed an independent, user-friendly application dedicated to visualizing KPIs, enhancing accessibility and data-driven decision-making.
- Applied advanced predictive algorithms to forecast future KPI trends, enabling proactive strategies for improvement.
- Established a robust data pipeline, ensuring the efficient flow of consolidated data into a centralized database, enabling streamlined analysis and reporting.

**Class Attendance Management System using Facial Recognition** 2023

Faculty of Science Ben M'sik -FSBM Casablanca, Morocco

- Created an innovative technology solution for automating classroom attendance tracking.
- Utilized facial recognition technology to identify and record student presence, enhancing efficiency and accuracy in educational institutions.

## CONFERENCES & WORKSHOPS

**International Conference on Optimization and Learning** May 2024

OLA 2024 Dubrovnik, Croatia

- Presented: "Machine Learning Applications in Road Safety: A Comprehensive Review"
- Covered trends, challenges, and gaps in applying machine learning to road safety.

**Multimodal Foundation Models and Generative AI** From April 2024 to May 2024

International Spring School Rabat, Morocco

- Explored multimodal data analysis and generative AI, broadening the scope of analytical techniques for road safety.