

BAHLAOUI AHMED

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SUMMARY

AI & Data Science engineering student with strong foundations in statistics, machine learning, and data modeling. Experienced in building and evaluating predictive models using Python, scikit-learn, and TensorFlow. Skilled in data preprocessing, feature engineering, and translating complex datasets into actionable insights.

EDUCATION

Ecole Nationale des Arts et Métiers

Rabat, Morocco

Engineering Degree, AI & Data Science

Sep 2023 – Jun 2028

- Coursework: Machine Learning, Probability & Statistics, Algorithms, Data Structures, Mathematical Optimization

EXPERIENCE

IT Support Assistant

Jan 2024 – May 2024

ENSAM IT Department

Rabat, Morocco

- Analyzed recurring system incidents and identified root causes, reducing repeated technical issues through structured troubleshooting workflows.
- Maintained and cleaned internal databases, ensuring data accuracy and system reliability.
- Assisted in monitoring network performance metrics and improving system stability.

PROJECTS

Physics Particle Simulator | C++ | 2025

- Modeled real-time physical systems using numerical methods to simulate 1,000+ interacting particles.
- Optimized computational efficiency through algorithm refinement and memory management improvements.

Shortify – URL Shortener | Redis, Vercel | 2025

- Designed a data-driven backend using Redis key-value storage for high-speed URL retrieval.
- Implemented performance monitoring to evaluate latency and scalability under concurrent usage.

Machine Learning Projects | Python

- Built supervised learning models (regression & classification) using scikit-learn.
- Performed data preprocessing, feature scaling, and model evaluation using accuracy and RMSE metrics.
- Conducted exploratory data analysis (EDA) using Pandas and Matplotlib to identify patterns and trends.

TECHNICAL SKILLS

- Programming:** Python, C++, SQL, JavaScript, Java
- Machine Learning:** scikit-learn, TensorFlow, PyTorch
- Data Analysis:** Pandas, NumPy, Matplotlib
- Concepts:** Feature Engineering, Model Evaluation, Supervised & Unsupervised Learning, Statistical Analysis
- Tools:** Git, Docker

CERTIFICATIONS

- Supervised Machine Learning: Regression and Classification – Coursera
- Statistics Foundations – Meta (Sep 2024)
- Introduction to Data Analytics – Meta (Aug 2024)
- Introduction to Data Management – Meta (Aug 2024)

LANGUAGES

- Arabic (Native)
- French (Fluent)
- English (Fluent)