

OTHMANE CHAOUI KOURAICHI

Engineering Student — Digital Sciences

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Profile

Curious and analytical engineering student with a strong foundation in mathematics and data analysis. Interested in R&D and leveraging technical expertise to develop sustainable and efficient engineering solutions. Seeking internships to apply and expand skills in a professional engineering environment.

Education

Engineering Cycle — Digital Sciences

ENSEEIH — 2025 — 2028

- Major: Digital Sciences
- Relevant coursework: Data Analysis, Programming (C/Python), Statistics, Algorithms

Preparatory Classes for Engineering Schools

Lycée Moulay Youssef — 2023 — 2025

- Intensive program in Mathematics and Physics; ranked in the top 15%

Projects

TIPE: Face Recognition using PCA

2025 • Tools: Python, NumPy, OpenCV

Applied Principal Component Analysis to face recognition dataset to extract principal components and improve classification reliability. Presented results to academic juries in France and Morocco.

- Implemented PCA pipeline in Python; optimized distance metrics to improve recognition accuracy.
- Achieved strong qualitative accuracy; results validated by academic panels.

Experience & Internships

Mathematics Tutor

2024 — 2025

Volunteered as a math tutor, creating lessons and guiding students in algebra and calculus.

- Created custom lesson plans for 10+ high-school students; improved average scores by ~15%.
- Focused on clear explanations and problem-solving strategies.

Technical Skills

Programming

Python, C, MATLAB, JavaScript

Data Analysis

PCA, Statistical Analysis, Data Visualization

Tools & Platforms

Git, Linux, LaTeX, Jupyter, VS Code

Methodologies

Agile, Problem Solving, Algorithm Design

Extracurricular & Activities

- Participant — Battle Dev by Thales (competitive programming)
- Member — School running club (Run7)
- Volunteer — Local science outreach programs

Languages

English (Fluent); Arabic (Native); French (Fluent); German (Studying)