



# MAJD SOUISSI

@ majdsouissi625@gmail.com

+216-94986601

Majd Souissi

## SUMMARY

Engineering student specializing in Applied Mathematics and Modeling, passionate about AI, data science, and digital innovation. Skilled in machine learning, software development, and data analysis, with proven leadership experience in technical project management and marketing.

## EDUCATION

Applied Mathematics and Modeling Engineering | National Higher Engineering School of Tunis

2023 – Present Tunis, Tunisia

Preparatory Cycle for Engineering Studies | Preparatory Institute for Engineering Studies of Sfax-IPEIS

2021 – 2023 Sfax, Tunisia

Section: Physics - Chemistry

## TECHNICAL SKILLS

### AI and Data Technologies

Web Scraping

Machine Learning

Deep Learning

Computer Vision

NLP

Generative AI

LLMs

Explainable AI(XAI)

Reinforcement Learning

### AI Frameworks

TensorFlow

PyTorch

Keras

NVIDIA NeMo

Shap

GradCam

Lime

NVIDIA NIM

OpenCV

### Data Visualization

Power BI

Matplotlib

Seaborn

Excel

SPSS

Tableau

### Time Series Forecasting

SARIMA

LSTMs

XGBoost

ARIMA

Prophet

## PROJECTS

Pneumonia Detection Using X-ray Chest Images with explainable AI

2024 – 2025

- Developed a deep learning-based web application for detecting pneumonia in chest X-ray images.

- Integrated Grad-CAM and LIME for model explainability and user trust, with an interactive frontend for real-time analysis.

Computer Vision, CNNs, Explainable AI, Grad-CAM, LIME, Flask, JavaScript

MindMate AI Chess Game

2024 – 2025

- Built a web-based chess game powered by reinforcement learning, enabling the AI to learn and improve with experience

- Integrated a custom chess engine with a Flask backend and a dynamic JavaScript-based interface.

Reinforcement Learning, Chess Engine, HTML, CSS, JavaScript, Flask

CryptoCrack AI for Encryption/Decryption

2024 – 2025

- Developed an AI-powered web app for encryption and decryption using classical cryptographic methods with integrated chatbot assistance.

AI Decryption, Cryptography, Chatbot, NLP, Flask, Python, HTML, CSS, JavaScript

Educational Platform for Statistics in Tunisia

2024 – 2025

- Created a web-based platform featuring e-learning modules, chatbot support, interactive dashboards, and curated articles to promote statistical literacy.

Technologies: React.js, Node.js, SQL, NLP, Power BI, HTML, CSS, JavaScript

Java App for Student and Grade Management

2024 – 2025

Optimization Techniques

Linear Programming

Genetic Algorithms

approximation metaheuristics

Programming Languages

Python

Java

JavaEE

C++

R

Matlab

PL/SQL

Web Development

HTML

CSS

JavaScript

Bootstrap

PHP

Flask

Streamlit

Databases

Oracle

SQL

MySQL

Soft Skills

Communication

Leadership

Problem-solving

Adaptability

LANGUAGES

Arabic: ●●●●●

English: ●●●●●

French: ●●●●○

CERTIFICATIONS

- Microsoft Azure AI Fundamentals (AI-900)
- Microsoft Azure Data Fundamentals (DP-900)
- Generative AI with Diffusion Models (NVIDIA)
- Deep Learning Fundamentals (NVIDIA)
- Computer Vision for Industrial Inspection (NVIDIA)

- Developed app with admin and teacher spaces for user management, authentication, grade management, and average calculation
- ✎ Java, SQL, Spring Boot, MySQL

JEE palm Sales Management App

- 📅 2024 - 2025
- Built app with admin and client spaces for product and sales management, including user authentication
- ✎ Java, JavaEE, Apache Tomcat, SQL, Spring Boot, MySQL, HTML, Bootstrap, JavaScript, CSS

Loan Approval in Banks Prediction — PFA 1 Academic Project

- 📅 2023 - 2024
- Developed a predictive model to determine bank loan approval based on applicants' financial and social indicators.
  - Applied classification techniques with detailed exploratory data analysis and visualization.
- ✎ Classification, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn
- Statistical Study of Healthcare in Tunisia

- 📅 2023 - 2024
- Conducted a comprehensive analysis of Tunisia's medical personnel, leveraging data scraping, analysis, and visualization techniques.
- ✎ Data Analysis, Python, Web Scraping, Pandas, Data Visualization, Power BI

ASSOCIATIVE LIFE

Marketing Manager | NERDATA ENSIT CLUB

- 📅 2023 - Present
- 📍 Tunis, Tunisia
- Organized data science and AI workshops
  - Spearheaded the promotion of the club's activities through media channels.
  - Coordinated technical training for 50+ club members

Media Manager | VANGUARD CHESS ENSIT CLUB

- 📅 2023 - 2024
- 📍 Tunis, Tunisia
- Organized soft skills workshops and chess competitions
  - Spearheaded the promotion of the club's activities and event through media channels.
  - Operated as media and logistics manager in the club's biggest event ENSIT GAMBIT 1.0

Logistics team Member | ENSIT National Forum

- 📅 2023 - 2024
- 📍 Tunis, Tunisia
- Assisted with event logistics, including setup and on-site coordination.

Logistics Manager | ENSIT Geeks Club Hackathons

- 📅 2023 - 2024
- 📍 Tunis, Tunisia
- Secured smooth competitions atmosphere for all participants