

# Souissi Majd

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## SUMMARY

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

## EDUCATION

### National Engineering School of Tunis (ENSIT)

*Applied Mathematics and Modeling Engineering*

Tunis, Tunisia

Sep 2023 – Present

### Preparatory Institute for Engineering Studies of Sfax (IPEIS)

*Preparatory Cycle Diploma, Physics and Chemistry*

Sfax, Tunisia

Sep 2021 – Jul 2023

## PROFESSIONAL EXPERIENCE

### AI Internship

*Larina Research Laboratory*

Jun 2025 – Aug 2025

Tunis, Tunisia

- Technologies: Flutter, Python, OpenCV, XAI (Integrated Gradients, Occlusion Sensitivity)
- Developed a mobile app using Flutter for detecting almond varieties based on bark pictures using computer vision and XAI techniques.
- Implemented explainable AI methods to enhance model transparency and user trust.

## PROJECTS

### PneumoScan: Pneumonia Detection Web App | *AI, Machine Learning, Flask, Python, XAI*

2024 – 2025

- Built a deep learning web app for pneumonia detection in chest X-ray images.
- Used XAI (Grad-CAM, LIME, Saliency Map) for model explainability and real-time analysis frontend.
- Created a chatbot for pneumonia-related queries using LangChain retrieval LLMs.

### CryptoCrack AI: Encryption/Decryption App | *Flask, HTML, Python, CSS, JavaScript, NLP*

2024 – 2025

- Developed an AI-powered web app for encryption/decryption with classical cryptographic methods.
- Added chatbot for real-time user support.

### MindMate: AI Chess Game | *Reinforcement Learning, Flask, Chess Engine, HTML, CSS, JavaScript*

2024 – 2025

- Created a web-based chess game with reinforcement learning AI.
- Integrated a custom chess engine with Flask backend and JavaScript interface.

## SKILLS

**Programming Languages:** Python, Java, JavaEE, C/C++, JavaScript, PL/SQL, MATLAB, R, Dart

**Web Development:** React, Node.js, Flask, Spring Boot, PHP, HTML, CSS, Bootstrap, Streamlit

**Mobile Development:** Flutter

**AI & Machine Learning:** TensorFlow, PyTorch, Keras, Scikit-Learn, NVIDIA NIM, NeMo, OpenCV, GradCAM, LIME, SHAP, U-Net

**Data Analysis & Visualization:** Power BI, Tableau, Seaborn, Matplotlib, Excel, IBM SPSS

**Databases:** MySQL, SQL, MongoDB

**Tools:** VS Code, PyCharm, Figma, GitHub, Android Studio

**Techniques:** Deep Learning, NLP, Reinforcement Learning, Computer Vision, Time-Series Forecasting (SARIMA, ARIMA, Prophet, XGBoost, LSTMs), Optimization (Genetic Algorithms, Linear Programming, Approximation Metaheuristics)

**Languages:** Arabic (Native), English (Fluent), French (Fluent)

## CERTIFICATIONS

**NVIDIA:** Deep Learning Fundamentals, Computer Vision for Industrial Inspection, Generative AI with Diffusion Models

**Microsoft:** Azure AI Fundamentals (AI-900), Azure Data Fundamentals (DP-900)

**HuggingFace:** AI Agents Fundamentals

**DataCamp:** Data Scientist Associate

**Amazon Web Services (AWS):** Machine Learning Foundations