



# Salah Eddine Zouitni

*Data Scientist & AI Engineer*

## Professional Summary

Aspiring Data Scientist and AI Engineer currently pursuing advanced studies in AI and Data Science. Combining technical expertise in Python and Deep Learning with practical full-stack development experience. Passionate about leveraging machine learning to transform data into actionable insights.

## Education

- 2024–Present **Master in AI and Data Science**, *Faculty of Sciences (FS)*, Meknes  
Focusing on advanced machine learning, deep neural networks, and big data analytics.
- 2023–2024 **Licence in Software and Web Development**, *École Normale Supérieure (ENS)*, Meknes  
Specialized in software engineering principles, database management, and backend architectures.
- 2021–2023 **BTS in Web Conception and Multimedia**, *Technical High School*  
Gained proficiency in front-end design, user experience (UX), and multimedia content creation.
- 2020–2021 **Baccalauréat in Physical Sciences**  
Strong foundation in mathematics and scientific methodology.

## Technical Skills

- Data Science Python (Pandas, NumPy), Data Visualization (Matplotlib, Seaborn), SQL, Data Cleaning, Statistical Analysis
- Machine Learning Scikit-learn, TensorFlow/Keras, CNNs, EfficientNet, Random Forest, Model Deployment, Git LFS
- Web Development HTML5, CSS3, JavaScript, React.js, Bootstrap, Tailwind CSS
- Backend & Tools Django, Flask, PHP (Laravel), Java, C, Git, GitHub

## Key Projects

*Lotissement Dalia, Ait Yaazem – Agourai, Province El Hajeb – Morocco*

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## 2025 **GastroEndoNet AI Classifier, Personal Project**

*High-performance deep learning web application for gastrointestinal disease classification.*

- Fine-tuned an **EfficientNet-B3** model using TensorFlow, achieving **97% overall accuracy** on test data.
- Attained a near-perfect **0.9997 AUC** for Polyp detection across 4 distinct classes (Gerd, Polyp, Normal variants).
- Built a real-time web interface using **Flask** and **Tailwind CSS** for immediate image inference.
- **Repository:** <https://github.com/BR1WA/gastro-endo-net-ai>

## 2024 **ASL Alphabet Detection System, FS M1 Project**

*Real-time computer vision system for American Sign Language recognition.*

- Designed and deployed a dual-model architecture (CNN & Random Forest) to classify 26 ASL hand gestures.
- Achieved high accuracy inference on live video streams using OpenCV and MediaPipe for landmark detection.
- Managed large model weights (170MB+) using Git LFS for efficient version control and deployment.
- **Repository:** <https://github.com/BR1WA/asl-alphabet-detection>

## 2023 **Web Application Development, ENS Meknes**

- Built a full-stack web application using React.js and Django, featuring user authentication and data management.

## Experience

### 2024 (2 mo) **Web Development & Data Intern, Faculty of Oussoul Eddine**

- Developed "HR-System", a full-stack platform using **React.js** and **Laravel** to streamline HR workflows.
- Implemented features for digital employee management and automated certificate issuance.
- Engineered a custom statistics dashboard using **MySQL** to visualize workforce data and metrics.
- **Repository:** <https://github.com/BR1WA/HR-System>

### 2023 (1 mo) **Full Stack Development Intern, Green Rever**

- Developed responsive user interfaces using HTML, CSS, and JavaScript.
- Supported the backend team in API integration and server-side logic using Python frameworks.

### 2022 (15 days) **IT Support Intern, Presidency of Ibn Zohr University**

- Provided technical support and assisted in software deployment and network troubleshooting.

## Languages

English Professional Proficiency

French Professional Proficiency

Arabic Native

## Soft Skills

- Problem Solving & Debugging
- Time Management
- Effective Communication
- Adaptability & Continuous Learning

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