

# Mahassen Drira Software Engineering Student

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 Sfax, Tunisia

 Mahassen Drira

 GitHub Portfolio

 Personal Website

## Profile

Ambitious Software Engineering student specializing in Artificial Intelligence and Data Science, with a growing foundation in machine learning, data analysis, and intelligent systems. Passionate about transforming data into meaningful insights through Python-based tools and emerging AI techniques. Continuously expanding my technical skills and eager to apply them to real-world AI challenges through innovative, research-driven projects.

## Education

### Software Engineering Degree – Artificial Intelligence Specialization

2023 – Present

*International Institute of Technology (IIT), Sfax*

### Preparatory Cycle for Engineering Studies – Physics & Chemistry (PC)

2021 – 2023

*Faculty of Sciences, Sfax (FSS)*

### Baccalaureate in Experimental Sciences

2020 – 2021

*Mahmoud Megdich High School*

## Technical Skills

### Programming Languages

Python • Java • JavaScript • C++ • C • C#

### Artificial Intelligence & Machine Learning

Machine Learning • Deep Learning • Neural Networks • Computer Vision • Natural Language Processing • Predictive Modeling • Data Mining

### Data Science & Analytics

Data Preprocessing • Feature Engineering • Model Evaluation  
Exploratory Data Analysis (EDA) • Statistical Analysis • Data Visualization

*Libraries & Tools:* Jupyter Notebook • Matplotlib • Seaborn • Power BI

### Frameworks & Libraries

Scikit-learn • TensorFlow • Keras (Learning) • OpenCV • YOLOv8 (Object Detection) • PyTorch (Learning) • Pandas • NumPy

### Databases

MySQL • Oracle • SQL • SQLite

### AI Tools & Platforms

Git • GitHub • GitLab • Google Colab

## Projects

### SmartALPR – Tunisian ALPR with RAG-LLM Compliance Engine

10/2025 – Present

*Computer Vision & Generative AI Project*

- Real-time Tunisian plate validation with OCR & RAG-LLM, FastAPI backend, React UI, video streaming, chatbot.

### Building Insurance Claims Prediction Model

12/2024 – 02/2025

*Machine Learning Team Project | Python, Scikit-learn, Pandas*

- Developed a machine learning model to predict insurance claims based on 12 structural and location features, optimized and evaluated with performance metrics.

### Trash Intelligent – Smart Recycling Machine

10/2021 – 05/2022

*AI & Computer Vision Team Project | Python, OpenCV, AI*

- Built an AI system for real-time waste detection and classification using Python, OpenCV, and machine learning.

## Professional Experience

### Data Analyst Intern

07/2025 – 08/2025

*Bakchich*

Lac 2, Tunis

- Automated user behavior tracking via event structuring in MySQL
- Built interactive Power BI dashboards for business insights

### Full-Stack Development Intern

03/2025 – 06/2025

*Freedom Of Dev Service*

Sfax, Tunisia

- Developed responsive web & mobile UIs (Angular + Flutter) with RESTful API integration (Laravel).
- Contributed to agile workflows (Scrum), code reviews, and debugging.

## Languages

### Arabic

Native

### English

C1

### French

B1

### Spanish

A2

## Certificates

### Information Technology Specialist – Python

### Scrum Fundamentals Certified (SFC)

*Certiport*

*SCRUMstudy*

## Extracurricular & Leadership

### First Skills Club

2025 – Present

*Python & AI Coach*

Sfax, Tunisia

### Scouts Tunisia- Sadeka

2024 – Present

*Tech Trainer*

### AIESEC in Tunisia- Sfax Local Committee

2024 – Present

*Incoming Global Volunteer Vice President 26.27*

Sfax, Tunisia