

Aya Mekni

Motivated **second-year Computer Science engineering student** specializing in **Data Science and IA**, with a passion for **data manipulation, machine learning, and big data**. Proficient in **Python, SQL**, and various data frameworks, with experience handling large datasets and extracting insights. Seeking a data science or data engineering internship to apply analytical skills and gain hands-on experience.

SKILLS

Languages & Databases: Python, PHP, SQL, PL/SQL, HTML, CSS, JavaScript, .NET, MongoDB

ETL & Big Data: Hadoop, Pandas, NumPy

Web Development and tools: Laravel, Django, Flask, React.js, Spring Boot, Bootstrap, Postman, Swagger

Machine Learning & Deep Learning: TensorFlow, Keras, scikit-learn, YOLO, OpenCV

Web Scraping & Data Collection: Selenium, BeautifulSoup

Data Analysis & Visualization: Power BI, RStudio, Tableau

Environment: Scrum, Jira, Git, IntelliJ

Communication: English (fluent), French (fluent), Arabic (native)

WORK EXPERIENCE

FULL STACK INTERN

Anypli, Monastir
July-August 2024

- Developed and maintained **Eventify** a web platform for event creation, participation, and management using **Laravel** and **Tailwind CSS**.
- Built Blade templates for responsive **UI** and implemented role-based access for event management.
- Enhanced event browsing with localization features and used **Git** for version control.

EDUCATION

BACCALAUREATE IN MATHEMATICS

Lamta, Tunisia 2019

PRE-ENGINEERING DIPLOMA

University Of Monastir 2023

ENGINEERING DEGREE IN COMPUTER SCIENCE – SPECIALIZATION IN DATA SCIENCE AND IA

ESPRIM 2023-2026(ongoing)

PROJECTS

Trash to Cash

Ongoing

- Developed and trained a **CNN** using **TensorFlow** and **Keras** to detect recycling logos.
- Built a full-stack web app with **Django**, **React.js**, and **MongoDB** for real-time predictions and data storage.
- Integrated camera-based scanning, image uploads, and **JWT authentication**.

Tech Stack: TensorFlow, Keras, Django, React.js, MongoDB, JWT, NumPy, Pandas, Git, Trello

Customer Shopping Sales Trend Analysis with Power BI

May 2025

- Developed an interactive dashboard to analyze customer shopping trends and sales data.
- Visualized total sales by city, gender distribution, and manager impact using bar charts, pie charts, and line graphs.
- Analyzed sales trends over multiple years and categorized data by product type (Beauty, Books, Clothing, Electronics, Home Appliances).
- Provided insights into customer demographics and manager performance for strategic decision-making.

Tech Stack: Power BI, DAX, Data Modeling.

JobNest

December 2024

- Scraped job listings using **Selenium** and **Beautiful Soup** from linkedin and other websites.
- Stored and queried data using **Flask** and **MongoDB**.

Tech Stack: Python, Flask, Selenium, BeautifulSoup, MongoDB

Lung Cancer Detection with Deep Learning

March 2025

- Developed **CNN models** with **TensorFlow/Keras** for image classification.
- Applied data augmentation and fine-tuned pre-trained models (**ResNet**, **VGGNet**).

Tech Stack: TensorFlow, Keras, Python, OpenCV, NumPy, Matplotlib, Pandas.

University Housing System

Jan 2025

- Developed a **Spring Boot** web app for dormitory reservations and room assignments.
- Designed CRUD operations with **Spring Data JPA** and custom **JPQL** queries.
- Created REST APIs with **Spring MVC**; tested using **Postman** and **Swagger**.

Tech Stack: Java, Spring Boot, Spring Data JPA, Spring MVC, MySQL, Spring Scheduler, Spring AOP.

CERTIFICATIONS

Applications of AI for Predictive Maintenance – NVIDIA (April 2025)

Certification ID: 38XtOjStR1qLXwTBdn0PuA

Fundamentals of Deep Learning – NVIDIA (March 2025)

Certification ID: 1tO0Ys3ITkGJkXM3sgBKrQ

AI-900: Microsoft Certified Azure AI Fundamentals – KodeKloud

Certification ID: e0025655-a0cc-43c2-95ef-7a3f7158ea09

Docker Training Course for the Absolute Beginner – KodeKloud

Certification ID: 7b53b38f-2e3a-4a55-931f-9dbb5ea97523

Fundamentals of DevOps – KodeKloud (February 2025)

Certification ID: 204c9f91-57a6-4116-82c6-1f32db477ccf

Scrum Fundamentals Certified (SFC™) – SCRUMstudy (April 2024)

Certification ID: 1025380

Introduction to Power BI - DataCamp (May 2025)