

# Sarra RHOUMA

5th-Year Computer Engineering Student.

✉ sarra.rhouma@polytechnicien.tn

☎ +21650729734

📍 Sousse, Tunisia

🌐 [linkedin.com/in/sarra-rhouma-115059251](https://www.linkedin.com/in/sarra-rhouma-115059251)



## Profile

---


I am a final-year Computer Engineering student at École Polytechnique Sousse, specializing in Artificial Intelligence and Machine Learning. With expertise in Agile methodologies, full-stack development, and database management, I bring a well-rounded technical foundation to AI-driven projects. My hands-on experience includes building predictive models using Random Forest and Gradient Boosting, as well as Natural Language Processing (NLP) for text analysis and sentiment prediction. Proficient in Python and its AI/ML frameworks, I combine technical proficiency with strong leadership skills honed through active roles in student organizations, making me well-prepared to excel in AI-focused initiatives for my final-year project.

## Education

---

2022 – present  
Sousse, Tunisia

### Software Engineering

*Ecole Polytechnique Sousse* 

- Frameworks: Symfony, Laravel, React JS, Flutter, SpringBoot
- Specializations: Artificial Intelligence, Machine Learning, Data Processing, Data Mining, NLP, Power BI
- Database Management: SQL and NoSQL
- Architecture: SOA, Design Patterns, DevOps

2019 – 2022  
Sousse, Tunisia

### Bachelor's Degree in Electromechanics

*ISSAT Sousse*


- Skills: SolidWorks, CATIA, Maintenance, Embedded Systems, Arduino

## Professional Experience

---

2024/07 – 2024/08  
Sousse, Tunisia

### Summer Internship in Software Development

*Alchemy Code* 

- Developed an accounting application using Node.js Express.js and Next.js
- Integrated Docker for deployment in isolated environments

2023/07 – 2023/08  
Sousse, Tunisia

### Summer Internship in Software Development

*CodactSolution*

- Designed and helped develop an online education platform.

2022/02 – 2022/05  
Sousse, Tunisia

### Internship in Industrial Design

*La rose BLANCHE*

- Designed an industrial mixer using SolidWorks
- Automated the mixing process

2021/07 – 2021/08  
Sousse, Tunisia

### Internship as Technician

*RobotLab*

- Regulated temperature in a box
- Learned how to remotely regulate temperature using Arduino

## Projects

---

2025 – 2025	<b>Store Management Application with BI Integration</b> <i>MERN , BI</i> <ul style="list-style-type: none"><li>Developed a comprehensive store management application with integrated Business Intelligence (BI) features to streamline retail operations and enhance data-driven decision-making.</li></ul>
2025 – 2025	<b>Data Analysis and Dashboard Development for Breaking Bad</b> <i>Data Processing</i> <ul style="list-style-type: none"><li>Scraped and cleaned IMDb data using BeautifulSoup.</li><li>Conducted exploratory data analysis with visualizations.</li><li>Built a classification model (Random Forest) to predict review sentiments.</li><li>Developed an interactive dashboard with Dash/Plotly.</li></ul>
2024 – 2024	<b>Coworking Space Managment Application</b> <i>SpringBoot, React</i> <ul style="list-style-type: none"><li>Backend: Development of a RESTful application using Spring Boot, secured with Spring Security and Spring Data JPA.</li><li>Frontend: Dynamic user interface consuming the REST APIs exposed by the backend, built with React.</li></ul>
2024 – 2024	<b>Air Quality Prediction</b>  <i>AI Project</i> <ul style="list-style-type: none"><li>Used linear regression, Random Forest, and Gradient Boosting for predictive modeling</li></ul>
2024 – 2024	<b>NLP Recipe Title Prediction In Restaurants</b>  <i>NLP Neural Language Programming</i> <ul style="list-style-type: none"><li>NLP and machine learning techniques to predict recipe titles based on a list of ingredients. It combines a FastAPI backend and a React frontend for a seamless user experience.</li></ul>
2024 – 2024	<b>Order and Purchase Management Application</b>  <i>MERN Stack</i> <ul style="list-style-type: none"><li>Developed a MERN application for order and purchase management</li><li>Created a responsive e-commerce website</li></ul>
2024 – 2024	<b>Online Education Platform ABAJIM</b> <i>ABAJIM</i> <ul style="list-style-type: none"><li>Added reading icons on PDF files to make traditional school manuals more dynamic.</li></ul>
2023 – 2023	<b>Hotel Management Application</b> <i>Symfony</i> <ul style="list-style-type: none"><li>Developed a backend application for managing hotels and clients with Symfony</li></ul>

## Certifications

---

- |   |   |
|---|---|
| • IT-Specialist Databases          | • IT-Specialist Python         |
| • Microsoft Azure AI Fundamentals  | • PMI-Project Managment Ready  |
| • CCNA 1-2  |   |

**Skills**

---

UML Design, Python, SQL & NoSQL Databases

●●●●●

Symfony, SpringBoot, Java, Agile Methodologies (Scrum), MERN

●●●●●

Leadership, Adaptability, Time Management, Critical Thinking, Creativity, Empathy

●●●●●

**Organisations**

---

2024 – 2025

**IEEE EPS SB**

Sousse, Tunisia

*Active Member*

2022 – 2025

**Radio Club Poly Estim**

Sousse, Tunisia

*Secretary General, Vice President*

2022 – 2024

**ACM Association of Computer Macginig**

Sousse, Tunisia

*Secretary General,*

**Languages**

---

- French: DELF B2
- English: TOEIC B2
- German: A1