



Raed Mohamed Amine Hamrouni

📍 Sousse, Tunisia

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👤 Profile

Future Data Science engineer, specialized in Artificial Intelligence and predictive analytics, with a versatile background including software development experience. Passionate about new technologies and leveraging data to create innovative solutions, I combine technical rigor, collaborative spirit, and the ability to effectively solve complex problems.

🎓 Education

Polytechnic School of Sousse, Engineering Degree

2024–Present

- Specialization in Data Science

Higher Institute of Computer Science and Communication Technologies

2023–Present

(ISITCOM), Professional Master's Degree

- Specialization in Web Services and Multimedia

Higher Institute of Computer Science and Communication Technologies

2020–2023

(ISITCOM), Bachelor's Degree in Computer Science

- Specialty: Computer Science and Multimedia

💼 Professional Experience

Data Science Intern, ARSII - Sousse, Tunisia

Jul 2025–Sept 2025

- Designed a supervised classification model to predict postoperative complications following pediatric circumcision, enabling early identification of risk factors and improved medical follow-up.
- Technologies: Python, TensorFlow, NumPy, Pandas

Software Developer Intern (Bachelor's Final Project), VIVIA - Sousse, Tunisia

Jan 2023–Jun 2023

- Developed a customer complaints management module for the company's CRM system.
- Objective: Efficiently manage complaints and reduce processing time.
- Technologies: Node.js, React.js, PostgreSQL, Express.js

Software Developer Intern, SASTEC-SKILLS - Sousse, Tunisia

Jul 2022–Aug 2022

- Developed an online art gallery web application allowing users to sell their artworks.
- Technologies: React.js, Node.js, MongoDB, Express.js

Software Developer Intern, TUS - Sousse, Tunisia

Aug 2021–Sept 2021

- Developed a game (Wheel of Fortune) allowing customers to win prizes.
- Technologies: HTML, CSS, JavaScript

💻 Projects

StudyPal (Gamified Learning Platform with Local AI) - GitHub

Nov 2025–Dec 2025

- Objective: Design a personalized learning platform that generates quizzes adapted to each user's level.
- Features: Automatic question generation, intelligent feedback, progressive difficulty, evolving avatars, point system, and leaderboard.
- Technologies: Python, FastAPI, SQLite, React, JavaScript, Ollama (Llama 3.2) for local AI.

Hotel Microservices Project - GitHub	Mar 2025–May 2025
<ul style="list-style-type: none"> • Hotel booking application based on microservices architecture with independent services (users, bookings, rooms, notifications) interconnected via gRPC, GraphQL, REST, and Kafka. • Technologies: Node.js, Express, Apollo Server, gRPC, Kafka, Docker, OpenRouter (LLM) 	
Angular Club Management - GitHub	Apr 2025–May 2025
<ul style="list-style-type: none"> • Web application for managing football clubs with complete CRUD functionalities for clubs, players, stadiums, and intuitive user interface. • Technologies: Angular, Node.js, Express.js, MongoDB, HTML5, CSS3 	
Biological Age Estimation - GitHub	Feb 2025–May 2025
<ul style="list-style-type: none"> • Developed a regression model to predict biological age from dermatological data, testing 7 algorithms (Linear/Polynomial Regression, Random Forest, Lasso, Ridge, SVR, Neural Network). • Technologies: Python, Pandas, NumPy, Scikit-learn, TensorFlow/Keras, Matplotlib, Seaborn 	
TNDB - The Movie Database - GitHub	Sept 2023–Dec 2023
<ul style="list-style-type: none"> • Developed a full-stack movie database management web application with JWT authentication, allowing users to browse movies, manage personal lists (watchlist/favorites), rate and comment on movies. • Technologies: Node.js, Express.js, MongoDB, JWT, HTML, CSS3, JavaScript, RESTful API 	

Technical Skills

Programming Languages: Python, JavaScript, TypeScript, SQL, R

Frameworks & Technologies: Angular, React.js, Node.js, Express.js

Databases: SQL systems (PostgreSQL, MySQL), NoSQL systems (MongoDB)

Data Science & Machine Learning: Data exploration, descriptive statistics, supervised and unsupervised learning, regression, classification, clustering

Deep Learning: Neural networks, TensorFlow, Keras

Development Tools: Visual Studio Code, IntelliJ, Android Studio, Jupyter Notebook, Google Colab

DevOps: Docker, Kubernetes, GitHub Actions, Git

Python Libraries: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn

Data Processing: Data cleaning, preparation, and transformation

Activities

• Volunteer during the Coronavirus period at Red Crescent	2020
• Organization team member at Nuit de l'Info at ISITCOM	2022
• Participant in NODE-JS bootcamp organized by IEEE at ESSTHS Sousse	2022
• Participant in IEEEExtreme organized by IEEE at ESSTHS Sousse	2022
• Team member at Nuit de l'Info at Polytechnic School of Sousse	2024
• Team leader at Nuit de l'Info at Polytechnic School of Sousse	2024
• Team leader at TWISE NIGHT CHALLENGE at Polytechnic School of Sousse	2025
• Organization member of AAICE – African Agribusiness Incubation and Acceleration Investment at University of Sousse	2025

Languages

Arabic: Native language

French: Advanced

English: Intermediate

German: Beginner