

Nour Maatouk

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Proficient in spoken and written English, French (DELF B2) and Arabic

HIGHLIGHTS

Software engineering student passionate about **computer science** and **data science**, I excel in **software development** and **artificial intelligence**. I have led and contributed to several **tech projects** and **competitions**, combining **problem-solving skills** and adaptability to deliver **innovative solutions**. I am currently seeking a **final-year internship (PFE) opportunity** to conduct research and contribute to advanced **AI-driven projects**.

EXPERIENCE

Talan

July 2025 – Aug 2025

Artificial Intelligence Intern

Onsite - Tunisia

- Gathered and integrated structured and unstructured data, designed a graph-based architecture with GraphRAG to connect and analyze relationships, applied multi-agent reasoning to detect patterns and support decisions, developed queries and visualizations to turn data into insights, and evaluated performance against traditional analytics methods.

Key words: Python, GraphRAG, Multi-agent, Knowledge Graph, Neo4j

EPT/Lasmap - Université de Carthage

May 2025 – Jun 2025

Research Intern

Remote

- Research on human motion analysis, focusing on automatic posture detection using AI and computer vision, evaluation of 2D/3D pose estimation algorithms (OpenPose, Mediapipe), and application to workplace ergonomics to predict postures and reduce musculoskeletal disorder risks.

Key words: Python, Matplotlib, OpenCV, Mediapipe, OpenPose, BlazePose

Ozeol.com

Jun 2024 – Aug 2024

Artificial Intelligence Intern

Onsite - Tunisia

- Developed an AI-based solution to identify potential suppliers by analyzing Ozeol's historical transactional data, leveraging machine learning techniques to improve supplier selection and optimize business decisions.

Key words: Python, ML (Scikit-learn, TensorFlow, XGBoost), Pandas, NumPy, Matplotlib, Seaborn

EDUCATION

National Engineering Diploma in Computer Science

Polytechnic school of Sousse, Tunisia

2026

Preparatory Class in Computer Science

Polytechnic school of Sousse, Tunisia

Sep 2021 - Jun 2023

Baccalaureate in Mathematics

Bourguiba High School, Monastir, Tunisia

2021

PROJECTS

Movie Recommendation Microservices System

April 2025

presentation

- Built a microservices system with REST/GraphQL APIs, Docker deployment, and MongoDB for data management.

Predicting Arrest Outcomes in Los Angeles

April 2025

presentation

- Analyzed LA arrest records to identify key factors affecting outcomes.
- Built predictive models (Logistic Regression, Random Forest, SVM, Neural Networks) and visualized results with interactive dashboards.

Burnout Shield

March 2025

Mental Health Monitoring Application

- Developed AI models analyzing wearable time series data to evaluate mental health.

<ul style="list-style-type: none"> Implemented a personalized therapeutic support system based on a language model. 	Feb 2025
FungiScan AI	
<i>presentation</i>	
<ul style="list-style-type: none"> Created a Streamlit web app to detect fungal diseases in plant leaves from uploaded images. Used a fine-tuned MobileNetV2 CNN model with TensorFlow/Keras for real-time classification. 	

CERTIFICATIONS

Microsoft Azure AI Fundamentals (AI-900)	May 2024
<i>Issued by Microsoft</i>	
NVIDIA Certifications	Sep 2024
<i>Issued by NVIDIA</i>	
<ul style="list-style-type: none"> Building Transformer-Based Natural Language Processing Applications Deep Learning Fundamentals Applications of AI for Predictive Maintenance Applications of AI for Anomaly Detection 	
Machine Learning Specialization	May 2024
<i>Issued by Coursera</i>	
Cisco Networking Academy	Aug 2024
<i>Issued by Cisco</i>	
<ul style="list-style-type: none"> DevNet Associate CCNA: Switching, Routing, and Wireless Essentials 	

AWARDS

1st Place – Challenge Revolutionizing Agriculture with AI
ARSII & Centre de Recherche en Microélectronique et Nanotechnologie (CRMN)
1st Place – Challenge on Structural Optimization of Composite Plates with AI
ARSII & EPT/Lasmap - University of Carthage
1st Place – IAS TAM 4.0 Technical Challenge
IEEE Industrial Applications Society & DATAVERSE
1st Place – AI Night Challenge
ARSII & Novation City
2nd Place – Mental Health Technical Challenge
Tunisian Students and Young Professionals Congress & IEEE EMBS
2nd Place – AI Impact Challenge
American Corner Sousse
3rd Place – SIGHT Day Congress Technical Challenge
IEEE Tunisia Section

SKILLS

Programming Languages: Python, Java, JEE, C/C++, JavaScript, SQL, PHP.
Machine Learning Data Science: Scikit-learn, TensorFlow, XGBoost, Keras, PyTorch, Pandas, NumPy, Matplotlib, Seaborn, Plotly, OpenPose, MediaPipe.
Web Development: HTML, CSS, JavaScript, Angular, Flask, FastAPI, Node.js, MySQL, MongoDB.
Tools, Frameworks Platforms: Git, Docker, Kafka, Postman, Trello, Figma, Eclipse, Android Studio, Linux, Microservices, Neo4j, Knowledge Graph, GraphRag, MCP tools, Multi-agent systems.

VOLUNTEER EXPERIENCE

Founder and Chair	IEEE EPS SIGHT
<i>Jun 2024 - Feb 2025</i>	
<ul style="list-style-type: none"> Led the chapter, organized events, and coordinated regular meetings. 	
Founder and General Secretary	IEEE EPS CS SBC
<i>Jan 2024 - Jan 2025</i>	
<ul style="list-style-type: none"> Managed chapter operations, documented meetings, and wrote detailed reports. 	
Technical Team Volunteer	ACM EPS
<i>Oct 2022 - Jul 2023</i>	
<ul style="list-style-type: none"> Participated as a volunteer in TCPC 2023 and TCPC 2025, supporting technical events and workshops. 	