

# Nour Maatouk

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

## HIGHLIGHTS

- Software engineering student passionate about **AI, data science**, and **software development**.
- Strong **problem-solving**, teamwork, and project leadership skills.
- Seeking a **final-year internship** to apply my skills in building innovative **AI-driven solutions**.

## EXPERIENCE

### • Talan

July 2025 – Aug 2025

Onsite - Tunisia

#### *Artificial Intelligence Intern*

- Designed and implemented a **graph-based AI system (GraphRAG)** for pattern recognition and data reasoning, connecting structured and unstructured business data.
- Applied **multi-agent reasoning** to uncover hidden relationships, trends, and performance insights — improving decision-making and team optimization.
- Built interactive dashboards and intelligent queries for data visualization, transforming raw data into actionable business intelligence.

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

### • EPT/Lasmap - Université de Carthage

May 2025 – Jun 2025

Remote

#### *Research Intern – Computer Vision and AI*

- Researched AI-based human motion analysis and posture detection.
- Evaluated 2D/3D pose estimation algorithms (**OpenPose, MediaPipe**) for ergonomic assessment.
- Applied computer vision techniques to reduce workplace musculoskeletal disorder risks.

**Key words:** Python, Matplotlib, OpenCV, MediaPipe, OpenPose, BlazePose

### • Ozeol.com

Jun 2024 – Aug 2024

Onsite - Tunisia

#### *Artificial Intelligence Intern*

- Developed an AI system to identify high-potential suppliers using transactional data.
- Applied **machine learning models** to improve supplier selection and decision-making.

**Key words:** Python, Scikit-learn, TensorFlow, XGBoost, Pandas, NumPy, Matplotlib, Seaborn

## EDUCATION

### National Engineering Diploma in Computer Science

Polytechnic School of Sousse, Tunisia

Sep 2023 – Sep 2026

### Preparatory Class in Computer Science

Polytechnic School of Sousse, Tunisia

Sep 2021 – Jun 2023

### Baccalaureate in Mathematics

Bourguiba High School, Monastir, Tunisia

Sep 2020 – Jun 2021

## PROJECTS

### SkyHire — AI-Powered Recruitment Platform

Nov 2025

*Still in progress*

- Developing an AI platform to help candidates connect with airline companies.
- Implemented NLP, OCR, and computer vision models to extract, analyze, and enhance candidate CVs.
- Designed intelligent job–candidate matching and one-to-one virtual interview features.

### 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.
- Implemented a personalized therapeutic support system based on a language model.

### FungiScan AI

Feb 2025

#### Presentation

- 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

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### Microsoft Azure AI Fundamentals (AI-900)

May 2024

*Issued by Microsoft*

### NVIDIA Certifications

Sep 2024

*Issued by NVIDIA*

- 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

*Issued by Coursera*

### Cisco Networking Academy

Aug 2024

*Issued by Cisco*

- DevNet Associate
- CCNA: Switching, Routing, and Wireless Essentials

## AWARDS

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### 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

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- **Programming Languages & Tools:** Python, Java, C/C++, SQL, Git, Docker, Linux.
- **Libraries & Frameworks:** TensorFlow, PyTorch, Scikit-learn, XGBoost, OpenCV, Flask, FastAPI, Angular.
- **Technical Expertise:** Data Analysis, Machine Learning, Computer Vision, Generative AI, Reinforcement Learning, Multi-Agent Systems.
- **Soft Skills:** Problem Solving, Critical Thinking, Teamwork, Communication, Adaptability.

## VOLUNTEER EXPERIENCE

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- Guests Chief — IEEE CS SYP Activities TechX Tunisia 2025
- Founder and Chair — IEEE EPS SIGHT
- Co-Founder and General Secretary — IEEE EPS CS SBC
- Technical Team Volunteer — ACM EPS

Jun 2025 - Sep 2025  
Jun 2024 - Feb 2025  
Jan 2024 - Jan 2025  
Oct 2022 - Jul 2023