

Meriem Khedhiri

Software engineer


 [Portfolio](#)



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Dynamic and detail-oriented Software engineer with a strong foundation in Data Science, AI, and IoT. Skilled in machine learning, deep learning, and data analysis with hands-on experience in innovative research and real-world applications. Seeking an entry-level role to apply my expertise and drive innovation.

KEY SKILLS

- **Data Science & AI:** Machine Learning, Deep Learning, Computer Vision, TensorFlow, PyTorch
- **Programming:** Python, HTML, CSS, Java, C/C++, MATLAB
- **Big Data & Databases:** Spark, MySQL, PL/SQL, SQL
- **Data Visualization:** Matplotlib, Seaborn, Power BI
- **Development Tools:** VS Code, Eclipse, Jupyter, Google Colab, Git/Github
- **Embedded Systems:** STM32, Arduino, Raspberry Pi4
- **Soft Skills:** Problem-solving, Debugging, Team Collaboration, Agile (Scrum)

PROFESSIONAL EXPERIENCE

Research and development intern - Data engineer 02/2024 – 06/2024
Measurement and sensor Technology (MST) TU- Chemnitz, Germany

- Developed an innovative EEG-based epileptic seizure classification method using compressive sensing techniques.
- Conducted EEG data collection and preprocessing with MATLAB & ICA.
- Designed a feature selection pipeline in Python and implemented a web-based visualization tool using React.js & Flask.
- Deployed the model on Raspberry Pi4 for real-time monitoring.

Key tools: MATLAB, EEGLAB, Python, Google Colab, React.js, Flask, Raspberry Pi4

Deep Learning developer intern 06/2023 – 07-2023
Leoni, Tunisia

- Built a CNN for employee recognition & emotion detection using TensorFlow.
- Integrated OpenCV for real-time image processing.
- Enhanced model performance through extensive testing and optimization.

Key Tools: Deep Learning, TensorFlow, Jupyter, OpenCV, Python

Machine Learning developer Intern 06/2023 – 07/2023
The Sparks Foundation, Singapore (remote)

- Conducted EDA on 'SampleSuperstore' data to identify profitability insights.
- Developed a hybrid model combining stock price prediction and sentiment analysis.

Key Tools: Supervised and unsupervised learning, Clustering, Linear Regression

IOT developer Intern 07/2022 – 08/2022
TUNSA and ESPITA – Tunsat1 the Satellite Project (Tunisia-Japan), Tunisia

- Developed an STM32-based communication protocol for microcontrollers.
- Designed a redundancy backup system for CubeSat applications.
- Presented findings to JAXA & UNOOSA.

Key Tools: STM32, I2C, CubeMX.

EDUCATION

Engineering Degree, Industrial computer science Engineering 2021- 2024

National School of Electronics and Telecommunication of Sfax (ENET'Com)– Tunisia

- Engineering courses focusing mainly on Information Systems, computer engineering, artificial Intelligence, object-oriented programming, robotics, IOT and industrial computing.

Pre-Engineering Degree 2019- 2021

Preparatory Institute for Engineering Studies of Monastir – Tunisia

- Preparatory cycle for engineering studies, Linear Algebra, IT, Mathematical Fundamentals, Physics, chemistry, and basic computer science.

LANGUAGES

- English: Full Professional Proficiency
- French: Full Professional Proficiency
- Arabic : Native
- German: A2

CERTIFICATIONS

- Data Science Professional Certificate | IBM- Coursera 2025
- Scrum for Ops and DevOps Fundamentals | SCRUMstudy 2024
- CNA 1: Introduction to Networks | cisco 2023
- Machine Learning Specialization | Deep Learning.AI- Coursera 2023

VOLUNTEER WORK AND ACHIEVEMENTS

- Human resources manager for club Aeromodelisme Enet'com - Tunisia 09/2022– 07/2023
 - Soft skills trainer: Team/Time /Stress management
 - Founded and lead organised the « ENET AERO CUP »: National aeromodelling competition
- 2nd Prize Hackathon'23: 2023
 - Smart Solutions for the Automotive Sector at the Digital Research Center of Sfax