Melek Hajri

Artificial Intelligence Software Engineer

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Profile

Software Engineer, first-ranked graduate of the National Engineering School of Carthage, specialized in AI, ML, and software engineering automation. Experienced in LLM integration for software development workflows. Actively seeking opportunities to apply and expand my expertise in AI-driven software engineering solutions.

Experience

- **InvEarn** | AI Software Engineer Intern (End-of-Studies Internship) | March 2025 – August 2025
  Developed AI agents to improve software workflows: an issue reviewer that checks GitLab issues for quality, clarity, and template adherence while generating structured markdown feedback; a bug-solving assistant triggered by CI failures that diagnoses errors, applies fixes, and summarizes resolutions; and a summarization agent producing blog-style overviews of issues and merge requests to support collaboration and code reviews.
  Technologies: Python, LangChain, LangGraph, GitLab API, OpenAI LLMs.

- **Medianet** | Full-stack Developer Intern | July 2024 – August 2024
  Developed a web-based question-and-answer platform to help employees resolve technical issues and facilitate communication and collaboration. Fine-tuned an LLM model to recommend similar questions to employees.
  Technologies : Spring Boot, Angular, Spring Security, Spring JPA, MySQL, ML, LLM (BERT).

- **ETAP** | BI/Web Developer Intern | February 2022 – June 2022
  Developed a web application for reporting to manage HR and finance departments, including interactive dashboards to assist in decision-making. Integrated machine learning to predict employee promotions.
  Technologies : Django, Python, HTML, CSS, JavaScript, Bootstrap, MySQL, ML.

Education

- **Computer Engineering** | September 2022 - September 2025
  National School of Engineers of Carthage (ENICarthage)
- **Bachelor's in Big Data and Data Analysis** | September 2019 – June 2022
  Higher Institute of Arts and Multimedia of Manouba (ISAMM) and Higher School of Commerce of Tunis (ESCT)

Projects

- **ENICARTHAGE Grade Management Platform**
  Developed a full-stack web application for grade management for students at ENICARTHAGE.
  Technologies : Java, Spring Boot, Angular, MySQL, GitHub.
- **Emotion Recognition via Facial Expression Analysis**
  Developed a classification model to recognize six emotions in natural "in-the-wild" environments. Used CNNs and transfer learning to enhance accuracy.
  Technologies : Python, TensorFlow, CNN, Preprocessing, Data Augmentation, Computer Vision.

Skills and Abilities

- **Languages and Tools** : Python, Git, LangChain, LangGraph, AI, ML, NLP, PCA, SQL (MySQL, Oracle), NoSQL (MongoDB), Java, Spring Boot, Angular, Django, C, C++
- **Languages** : Arabic, English, French
- **General Skills** : Problem solving, Logical reasoning, Time management, Rapid adaptability
- **Certification** : Deep Learning Specialization (Coursera: Stanford University, DeepLearning.AI) - November 2024