CHAIMA TLILI

Ariana, Tunisie ☎ +216 99272414 ✉ chaimatlili62@gmail.com 🔗 [Chaima Tlili](#) 🐙 [Chaima Tlili](#)

Final-year Computer Science student. Specializes in Data Science and AI. Proficient in Python and Deep Learning. Experienced in MLOps and Computer Vision. Seeks 6-month internship for final-year project.

WORK EXPERIENCE

Engineering Internship – STAR Assurance
June 2025 – August 2025

- Designed and developed an innovative website integrating modern and intuitive features using Laravel.
- Built an advanced automation system to optimize processes, improve efficiency, and provide a seamless user experience.

Internship – Infraway
July 2024 – August 2024

- Developed a Python script with OCR to automatically extract data from PDF reports, storing structured data in SQLite, integrated with FastAPI, Git, Docker, and Azure for deployment.
- Contributed to a secure environment to train an automobile fraud detection model.

Final Year Internship – Hayat Technology
February 2023 – June 2023

- Designed an embedded system using Arduino and Raspberry Pi to safeguard fish in a basin.
- Developed an electronic board for the system, applying hardware-software integration principles.

ACADEMIC PROJECTS

Automated Resume Screening System – ESPRIT
September 2025 – Present

- Built an NLP pipeline for resume parsing and skill extraction using transformer models.
- Developed a BERT-based semantic search engine for candidate–job matching with bias detection and scalable cloud deployment.
- Integrated an AI-powered resume screening system using LLMs (RAG) and OCR (EasyOCR) across multiple domains.

PulmoScan – PIDS – ESPRIT
February 2025 – May 2025

- Built an automated pipeline for TNM lung cancer staging with Data Preprocessing, AI inference, and report generation, deployed via a Django web app, following the TDSP methodology.
- Integrated preprocessing and AI inference workflows, enhancing diagnostic accuracy.

Emotion Recognition with Diffusion Models – ESPRIT
February 2025 – May 2025

- Implemented diffusion-based generative AI for data augmentation, enhancing feature extraction.
- Engineered multi-modal architecture combining mel-spectrogram transformations with ResNet-50 for audio classification and speech-to-text pipelines for NLP-based emotion analysis.

MLOps – ESPRIT
February 2025 – April 2025

- Implemented an MLOps pipeline for experiment tracking with MLflow.
- Deployed models with FastAPI, utilizing Docker for containerization.

Deep Learning – ESPRIT
February 2025 – April 2025

- Brain tumor detection from medical images through model training and evaluation

Business Intelligence – ESPRIT
September 2024 – November 2024

- Used Power BI to analyze, visualize, and interpret data to support strategic decision-making

FemHealth – ESPRIT
February 2024 – May 2024

- Designed and developed an application for women across three platforms: Web, Mobile, and Desktop

SKILLS

- **Programming & Development:** Python, PyTorch, R, Java, PHP, C, HTML, CSS, .NET, Symfony, Spring, FastAPI, Laravel, Django
- **Databases & Version Control:** MySQL, MongoDB, Git, GitHub
- **Data Analysis & Visualization:** Power BI
- **Machine Learning & AI Tools:** MLflow, OCR, LLM, NLP, LLMA, RAG, YOLOV8
- **AI/ML Specializations:** Machine Learning, Deep Learning, MLOps, Time Series Analysis

LANGUAGES

- Arabic native
- French B2
- English B2

EDUCATION

Engineering Cycle in Data Science - ESPRIT   September 2023 - Present

Bachelor's Degree in Computer Systems   September 2020 – June 2023
Engineering – Faculty of Science, Sfax