MAHMOUD BEN HAMMOUDA

Final Year Engineering Student in Computer Science/ Specializing in Data Science

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EDUCATION

ESPRIT Engineering School| Tunis, Tunisia

- Specialization: IT/ Data Science **2021 - Present**

Lycée Menzah 6 | Tunis, Tunisia

- IT baccalaureate **2021**

SKILLS

Deep Learning / Machine Learning: ANN, CNN, GNN, Transformers, Autoencoders, GANs, Random Forest, RAG, XGBoost, k-NN, Clustering

Data Science & Treatment: Feature Engineering, Data Visualization, NLP(BERT, HuggingFace), recommandation system

Tools & Frameworks
Python libraries: TensorFlow, Pytorch, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, **Big Data :** Hadoop, Cloudera, **MLOps:** MLflow, Docker, Git**, Langage:** Java, JavaScript, PHP, HTML, CSS, XML, C#, C++

Deployment: API(FastAPI, Flask), Streamlit

Databases: SQL(MySQL, Oracle), NoSQL(MongoDB)

Methodologies: Scrum, CRISP-DM, TDSP

LANGUAGES

- ❖ **Arabic – Native**
- ❖ **French – Fluent**
- ❖ **English – Fluent**
- ❖ **German – Beginner**

PROFESSIONAL EXPERIENCES

Data Science Inten/ Insight Plus

June 2025 – September 2025

Development of a platform(EXSYS) with user-friendly interfaces for managing customer relationships with exchange offices.

- Design and development of the backend and frontend
- Data generation to build a customer database.
- **Customer segmentation** and creation of a 360° view.
- **Dashboard** with **Power BI** to support decision-making

Technologies: Symfony, Angular , Python, Power BI, XAMPP

Data Science and AI Intern/ ESPRIT

January 2025 – May 2025

Development of a multimodal AI solution(PRIME GUIDE) for personalized digital marketing for SMEs.

- Data collection and preparation.
- Development of a multimodal **AI pipeline** integrating text, image, audio, and personalized GIF generation.
- Sentiment analysis, trend prediction, and recommendation system.
- Creation of a **REST API** with content generation.

Technologies: Python, Streamlit, Git, kaggle, hugging face

Web Development Intern / VERDIT | Héraklion, Greece

July 2024 – September 2024

Development of an online library(MyLibrary), optimized for performance and enhanced with advanced features to deliver an interactive and reliable user experience.

- Frontend design to provide an ergonomic interface.
- Integration of advanced features.
- **API** integration and collaboration with backend using **ORM**s

Technologies: Laravel, Table Plus, Git, Laragon

PROJECTS

Deep Learning Project for cancer detection/ ESPRIT

2025

CNN-Based model for cancer detection using medical image classification with data augmentation and optimization.

- Business understanding.
- Data collection, cleaning, and preprocessing.
- Modeling and hyperparameter optimization.
- Performance metrics calculation and deployment

Technologies: Python, Git, Streamlit

AI Hackathon Finalist

2024

Design and development of an AI-driven platform optimizing waste management and resource reuse, with a real-time dashboard.

- Business understanding.
- Data collection and processing.
- Data exploration and analysis.
- Modeling and deployment.

Technologies: Python, Git, Flask

VOLUNTEERING EXPERIENCES

AIESEC SERBIA | Subotica (2 months) **2022**
AIESEC TUNISIA | Tunisia (2 years) **2021**

CERTIFICATIONS

- ❖ **CCNA**
- ❖ **Resilience Development Pathway (RDP)**
- ❖ **Oracle OCI AI Foundations**
- ❖ **Oracle OCI Generative AI Professional**
- ❖ **AWS Cloud Foundations**
- ❖ **Building Transformer-Based Natural Language Processing Applications**

INTRESTS

- ▷ Gymnastics
- ▷ Traveling