Achref Gattoussi Lahouel

✉ achrefgattoussi04@gmail.com 📞 (+216) 28 050 835 📍 Tunisia,Tunis 🔗 Linkedin 🐙 Github

EDUCATION

Bachelor in Computer Science, Specialization in Big Data and Data Analysis
higher institute of multimedia arts of Manouba

2022 – present | Manouba, Tunisia

EXPERIENCE

AI and Biotechnology Intern/Web Developer
Talan Tunisie International

07/2024 – 08/2024 | Tunis, Tunisia

- Leveraged AI and sonogenetics to create a non-invasive detection system, deployed on an Angular platform. Integrated three AI models via Flask to deliver personalized care and robust patient management features.
- Designed and implemented a UNet-based deep learning model for MRI tumor segmentation, achieving exceptional precision with an average IoU/DICE score of 98.823. This U-shaped architecture ensured accurate localization and size determination of tumors.
- Created an AI-powered virtual assistant to address biology-related queries, providing real-time, context-aware assistance to users in a healthcare setting.

PROJECTS

Heart Attack prediction
Python

2023 – 2024

- Conducted comprehensive data collection and preprocessing, ensuring clean and reliable datasets for analysis.
- Applied regression techniques (Linear and Logistic Regression) to identify key features and build a classification model for predicting heart attack risks.
- Validation and Results: Evaluated model performance using accuracy metrics.

Massive Data Analysis of Causes of Death 2024
Python

2023 – 2024

- Conducted an in-depth analysis of a dataset on causes of death using Hadoop and Spark technologies.
- Utilized PySpark to preprocess, transform, and analyze large datasets efficiently.
- Delivered actionable insights by applying big data tools to health-related data.

Flight Booking and Management System
Angular|ExpressJS

2024 – 2025

- Developed a fully functional airline website with a user registration system, flight reservation, and flight status tracking.
- Integrated an API to display up-to-date flight information and allow users to book tickets.
- Designed an admin dashboard for managing user data, reservations, and flight analysis.

TECHNICAL SKILLS

Languages: java, Python, C, PHP, , TypeScript, SQL, Cypher, Pyspark

Frameworks: Angular, ExpressJS , Flask , Hadoop

Libraries: pandas, NumPy, scikit-learn, Matplotlib, NetworkX

Developer Tools: Git, Docker, Microsoft Azure , VS Code , Eclipse

LANGUAGES

French — Fluent

English — Fluent

CERTIFICATES

- Neo4j Certified Professional
- Microsoft Certified: Azure AI Fundamentals
- Microsoft Certified: Azure Data Fundamentals