



# HAJER CHERIF

Engineer in Data Engineering and Decisional Systems



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## PROFILE

Enthusiastic about data integration and management, as well as artificial intelligence techniques, I harness these technologies with dedication to solve complex problems. Always eager to learn, I am open to any opportunities that will enable me to enhance my professional skills and knowledge.

## ACADEMIC BACKGROUND

National School of engineers of Sfax, <b>ENIS</b>	2025-Now
National School of Electronics and Telecommunications of Sfax, <b>ENET'COM</b>	2022-2024
Preparatory Institute for Engineering Studies in Sfax, <b>IPEIS</b> ( Mathematics-Physics )	2020-2021
Pioneer School Farhat Hached SFAX, <b>LPS</b> ( Baccalaureate degree in Mathematics )	2019

## PROFESSIONAL EXPERIENCES

### **TU Chemnitz | 2024 : Development of an intelligent system for visualization and extraction of gait and posture analysis parameters based on a smart insole**

Implementing an intelligent feature extraction algorithm for gait and posture analysis utilizing smart insoles, targeting applications in medical diagnosis and creating a user-friendly web application for visualization(Python, Streamlit,Flask).

### **Udini Deep Smile | 2023 : 3D Pose Correction to Enhance 3D Tooth Segmentation.**

Enhancing deep neural network architectures, such as ResNet, Graph Neural Networks (GNN), and the Weakly Supervised Data Augmentation Network (WSDAN), to optimize them for accurate 3D pose estimation. This optimization process involves the implementation of mathematical principles inspired by the Fibonacci sequence.

### **Open Presta | 2022 : Development of a Prestashop barcode generation module** (Prestashop, JavaScript).

## SKILLS

**Programming:** Python, Java, R, Scala, PHP, C

**Machine Learning / Deep Learning:** Scikit-learn, TensorFlow, PyTorch, MLops, Pandas, Seaborn ..

**Computer Vision:** OpenCV, YOLO-v7

**Web / Framework:** Flask, FastAPI, Streamlit, HTML, CSS, XML

**Databases:** MongoDB, MicroSoft SQL Server, MySQL, Oracle, Access

**Business Intelligence (BI):** PowerBI, Excel

**Data Integration:** SSIS, Talend

**Big Data:** Hadoop (Hive, HBase)

**Mobile Development:** Android

## ACADEMIC PROJECTS

- **Iris Detection** : Applying advanced computer vision and machine learning techniques to accurately detect the human eye's iris ( **OpenCV, Scikit-learn, TensorFlow** ).
- **ChatBot** : Enhancing user experience by answering frequently asked questions ( **NLP, TensorFlow** ).
- **Web Application for Fraudulent Transaction Detection:** Analyzing financial transactions to detect fraudulent activities ( **Scikit-learn, FastAPI, Streamlit, postman** ).
- **Movie Recommendation Web Application** : Extracting valuable information from movie reviews ( **NLP, Pytorch** )
- **Pose Estimation for Fall Detection** : Identifying body positions to detect fall situations ( **YOLO-v7, TensorFlow** ).
- **Intelligent Medical Web Application:** Offer two tests on vascular disease and diabetes by benefiting from medical data and supervised machine learning algorithms ( **Scikit-learn, PHP, MySQL, CSS** ).
- **Data Processing and Visualization** : Data processing, creating a conceptual model to structure information, and visualizing it with an interactive dashboard ( **PowerBI** ).
- **Website:** Estimating and tracing curves using mathematical methods ( **Flask, HTML, CSS, JavaScript** ).

## CERTIFICATIONS

Microsoft Azure AI Fundamentals, Microsoft Azure Data Fundamentals.

## LANGUAGES

English : Professional, French : Professional