



Nawres Zaidoun

Applied Mathematics and Modeling Engineering Student

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📍 Tunis, Tunisia

Education

Engineer's degree, Applied Mathematics and Modeling, **The Higher National School of Engineering of Tunis (ENSIT)** 2022 - 2025
Preparatory cycle for engineering studies, Mathematics-Physics, **Preparatory Institute for Engineering Studies in Tunis (IPEIT)** 2019 - 2022
Bachelor's degree in Mathematics, first class honours, **Manzah 8 Pioneer High School** 2015 - 2019

Professional Experience

Software Engineering and Web Development Intern

July 2023 - August 2023

Company : BH LEASING

- Developing a web-based call history management system to improve communication efficiency between BH Leasing and Tunis Call Center and streamline client-bank interactions.
Technologies & Tools : C# , ASP.NET Core MVC , Entity Framework (EF) Core , Oracle DB , HTML , CSS , JavaScript , Bootstrap.

Machine Learning Intern

June 2023 - July 2023

Company : ITGust

- Developing a multi-page data-driven medical app called HealthcareTN, utilizing machine learning models to provide precise predictions for ailments like diabetes, kidney disease, and heart disease.
Technologies & Tools : Python, Data Analysis, Feature Engineering, Random Forest Classifier, KNN, Logistic Regression, XGBClassifier.

Projects

PFA1 (end-of-year project 1) : Schätzung der Gebrauchtwagenpreise

- Predicting used car prices in the German market, creating a platform, and integrating a chatbot onto the site, all developed in German.
Technologies & Tools : Python , Web Scraping , Data Analysis , Feature Engineering , Machine Learning (Linear Regression , Random Forest Regressor , Gradient Boosting Regressor) , Flask , HTML , CSS , Bootstrap , Chatbot (Rasa)

Twitter Sentiment Analysis using NLP

- Development of a web application to analyze tweets and classify their sentiment as positive, negative, or neutral using natural language processing.
- Technologies & Tools : Python , NLP (NLTK , spaCy,...) , Text Preprocessing , Feature Extraction , Twitter API . Flask , HTML , CSS , JavaScript

Fingerprint Authentication Project with Emotional Feedback

- Creating a web platform for cultural center administrators to track visitors in various rooms, building profiles that include visitor information, notably their fingerprint, which will be recognized through a deep learning model.
- Developing a web application to identify and interpret emotional expressions on visitors' faces, capturing their reactions to gather feedback.
Technologies & Tools : Computer Vision, Deep Learning , OpenCV , TensorFlow , PyTorch , CNN , Angular , Node.js , Flask

Road Accident Analysis

- Analyzing road accidents by leveraging SQL queries for data extraction and employing data cleaning and visualization techniques. The findings are presented through interactive dashboards for comprehensive insights.
Technologies & Tools : Power BI, Excel , SQL

Skills

Programming Languages: Python, C, C++, C#, Java, MATLAB, Julia, SQL, PL/SQL

Web Technologies: HTML, CSS, JavaScript, Flask, Bootstrap, ASP.NET , Spring Boot, ReactJs

Data Science and AI: OpenCV, Pandas, PySpark, NumPy, scikit-learn, PyTorch, NLTK, ComputerVision, TensorFlow, Keras, XGBoost, Neural Networks (CNN, RNN, etc.), Tkinter, Power BI , Tableau

Web Scraping: BeautifulSoup, Requests, Selenium, Scrapy

Databases: MySQL, MongoDB, Oracle Database

DevOps: Docker, Jenkins, Kubernetes

Others: Graphic Design, Git, Linux

Languages: Arabic (native language), French (fluent), English (fluent), German (Level B1 / A2 GOETHE Freiburg Score: 89/100)

Organizations

Chairwoman and instructor , **NERDATA ENSIT CLUB**

Project Department Member , **ENSIT MICROSOFT CLUB**

German-Speaking Forum Moderator , **ENSIT Business Forum - Insight Of ENSIT**

Bursary recipient of the German PASCH program "Schulen: Partner der Zukunft", **Internat Schule Birklehof - Germany**

Business Development Member , **ENSIT Junior Enterprise**