AYMEN HADJ MEBAREK

AI ENGINEER / PYTHON DEVELOPER

Algiers, Algeria | +213 776671086 | aymenhadjmebarek1834@gmail.com

Objective

To contribute as an AI/Python instructor at **Code213**, leveraging my expertise in machine learning, data analysis, and Python programming to mentor and empower learners. Passionate about providing practical knowledge and guiding students to solve real-world challenges using AI-driven approaches.

Education

- **High School Diploma with Honors (BAC)**   **2020**
  Major : Mathematics

- **Bachelor's degree,** University of science and technology Houari Boumedienne   **2020-2023**
  Major : Computer Science

- **Master's degree,** University of science and technology Houari Boumedienne   **2023-2025**
  Major : Intelligent Computer Systems

Professional Experience

Djezzy Internship | Big Data   **07/2024 – 08/2024**

- Data analysis and dataset preprocessing.
- Training clustering models to predict revenues.
- Compare results with other models to upgrade the K-means model.
- Improved clustering model accuracy by 15.

CERIST Internship | Segmentation and Modeling of Pulmonary Blood Vessels   **06/2024 – 08/2024**

- Segmentation of X-rays scans (CT scan)
- 3D modeling of the result of segmentation
- Implementing the 3D model in a web app using API.

Skills & abilities

- Effective Communication
- Time Management
- Problem solving
- Brain Storming

AYMEN HADJ MEBAREK

DATA SCIENTIST

Personal Experience

Corona Fake News detection

- Built a Neural Network LSTM model for NLP to detect fake news
- Developed a Flask backend with HTML/CSS/JS front end for user interaction
- Implementation of API for seamless integration of the model with web services

Simple Chatbot Project

- Built a chatbot using a JSON database to store and retrieve answers
- Focused on efficient query response handling without user interface
- Designed for quick, lightweight deployment.

AI plays Flappy Bird

- Developed an AI agent using the NEAT algorithm to autonomously play Flappy Bird.
- Trained the model to adapt and improve over time based on gameplay.
- Integrated Python PyGame for real-time simulation of AI performance

Hand Written Word Recognition

- Buil a CNN model to detect the character of the English alphabet
- Used OpenCV for detection and contouring of each character in a word
- Implementing the CNN model to each character of the word, to recognize the whole word

Disease Prediction from Medical Data

- Developed a neural network in TensorFlow/Keras for disease prognosis prediction.
- Created a Flask web app for real-time symptom-based disease predictions.
- Visualized symptom data and model performance using Seaborn/Matplotlib.

Web-Dev Instructor (CSE club)

- A work shop organized by the club of CSE, in the event CSE Around Algeria, where i got the opportunity to have my own workshop and teach students the basics of web development.
- Raise my expertise with the team work, and public talking.

For more projects you can view my github : aymen-hadj-mebarek

Certificates

- Data Analysis with Python
- Algorithms and Data Structures
- Scientific Computing with Python
- Problem Solving
- English IELTS : level C1