# AYMEN HADJ MEBAREK

## ARTIFICIAL INTELLIGENCE ENGINEER

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

A passionate AI enthusiast with solid experience in artificial intelligence, machine learning, and web development. Possesses a strong vision and creative insight, fluent in Arabic, English, and French.

## Objective

To secure an entry-level position in data science, artificial intelligence, or machine learning, where I can leverage my skills and knowledge to contribute to impactful projects and continue my professional growth.

## 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 | Minor : Data Science

## Professional Experience

**Djezzy Internship | Big Data**     **July. 2024 - August. 2024**

- Data analysis and dataset preprocessing
- Training cluustering models to predict revenus
- Compare uesults with other models to upgrade the K-means model

**Cerist Internship | Image processing**     **June. 2024 - August. 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

- Team work
- Problem solving
- Brain Storming
- Leadership

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## Personnal 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 retriece answers
- Focused on effecient query response handling without user interface
- Designed for quick, lightweight deployement

**AI 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

**Sea Level Prediction**

- Conducted data analysis to predict sea level trends using historical datasets
- Visualized key insights through graphs and trends for better understanding
- Applied statistical techniques to enhance prediction accuracy

## Certificates

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