AYOUB DJELLAOUI

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EDUCATION

University of Sciences and Technology Houari Boumediene   **Bab Ezzouar, Alger**
Mathematics and Computer Science   *2021-2022*
B.S. in Information Systems and Software Engineering   *Expected Graduation, June 2024*

- o   **Related Coursework:** Data Structures and Algorithms, Probability and Statistics, Algebra, Calculus, OOP, Database, Operating Systems, Graph Theory, Web Programming, Compilation, i8086 Architecture,Software Engineering.

WORK EXPERIENCE

DATA & AI Department Intern   *January 2023 - Present*
SARL TEKKOLAB

Project Overview: Currently Developing an **AI model to predict extreme weather events**, utilizing data analytics and machine learning techniques to enhance forecast accuracy and support emergency response strategies.

Responsibilities:
- Oversaw comprehensive **data collection and preprocessing**, significantly enhancing dataset quality for advanced modeling purposes.
- Currently **training machine learning models** using **Python, Scikit-learn & TensorFlow**, focusing on optimizing algorithms for **predictive accuracy.**
- Conducted rigorous analysis of model outcomes to **validate methodological accuracy**, employing statistical techniques to ensure robust performance evaluation.

Impact and Outcomes:
- Contributed to an increase in model reliability for **predicting severe weather events,** aiding in more effective planning and operational responses.
- Will add an **alert system for real-time weather updates**, aiming to improve user engagement and safety measures.

PROJECTS

AI Chatbot - Airbnb Guest Support   *September 2023*
- Developed an innovative AI chatbot leveraging the **OpenAI API** and an extensive knowledge base to streamline guest support services.
- Ensured **24/7 availability**, enhancing guest communication and achieving **cost-effective** service automation.
- Deployed the chatbot on **Telegram** and **WhatsApp**, and utilizing **Zapier** to track guest feedback efficiently.

Web Application for Stocks Portfolio Management   *March 2023*
- Developed the backend of a **Flask-based** web application, integrating the **Yahoo Finance API** to provide real-time, historical stock data for enhanced portfolio management.
- Implemented robust **user authentication** and utilized **SQLite** for secure data management, storing detailed transaction histories and user portfolios.
- Enhanced user interface with Flask's Flash messages and implemented **server-side validation** to ensure data integrity and secure user interactions.

Agricultural Stock Management System   *January 2024*
- Developed a **Django-based** web application for comprehensive agricultural stock management, facilitating seamless management of purchases, sales, and transfers across multiple centers.
- Customized an **open-source user interface** to enhance responsiveness and ensure compatibility across various browsers, tailoring it to specific project needs.
- Integrated advanced functionalities such as an employee management system with **CRUD** operations and **analytical dashboards** using **Chart.js**, providing interactive data visualization to optimize decision-making processes.

ACTIVITIES AND LEADERSHIP

Micro Club   **USTHB**
IT Section Member   *Dec 2022 - Present*

Google Developers Group (GDG Algiers)   **ESI Algiers**
Dev Departement   *Nov 2023 - Present*

Ideathon By Micro Club   *February 2023*
Team Leader
- Led the "7 Flames" team throughout **Ideathon**, a competition focused on innovative solutions.
- Presented our idea innovatively to the jury, introducing a concept of an event using the **Chess scoring system** for a hackathon.

Micro Hack   *March 2023*
Staff Member
- Played a pivotal role in organizing **MC Hack**, a major competitive hackathon, enhancing the event's logistical efficiency and overall success through proactive **team collaboration** and support.

Python Tutor   *November 2023*

- Provided private **Python** lessons to a student majoring in **Artificial Intelligence** at *Basaksehir University in Turkey*, sharing in-depth knowledge to enhance the student's understanding and skills in Python programming.

SKILLS

Programming: Python, Pandas, Numpy, Scikit-Learn, Tensorflow, Flask, Django, SQL (SQLite, MySQL, Oracle SQLPlus), C, Java, HTML, CSS, JavaScript, PHP, Bootstrap.

Tools: Jupyter Notebook, Google Colab, Google Cloud, VS Code, PyCharm, IntelliJ, Wrap, Git/GitHub, VM, Linux.