AYOUB FRIHAOUI

AI & DATA SCIENCE STUDENT

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Sidi Bel Abbes, Algeria

EDUCATION

2019-Present

Higher School of Computer Science (ESI SBA), Sidi Bel Abbes

- Master of Artificial Intelligence and Data Science
- Engineering

EXTRACURRICULAR

2019-2022

AlphaBit and Ingeniums Scientific Clubs

- Graphic Designer
- Event Manager

SKILLS

- Project Management
- Teamwork
- Data analysis
- ML Engineering
- Reverse Engineering
- Graphic/UI/UX Design
- Problem Solving
- Python, JS/TS, Go, C/C++, Java, Dart, ASM x86/64.

CERTIFICATES

- DataOps Methodology - IBM Skills Network
- Docker Essentials - IBM Skills Network

LANGUAGES

- English
- French

PROFILE

I'm a dedicated Computer Science student in AI and Data Science with a strong focus on Deep Learning, Low-level tech, Software Engineering, and Scalable Web Applications. I am passionate about scientific research, Using modern technologies like Golang, React, TensorFlow, and Python to build robust and efficient solutions. I'm always learning, innovating, and pushing boundaries.

PROFESSIONAL EXPERIENCE

DIGITAL TRADE AND EXPORT Ltd - Algiers

2023 SEP - OCT

Web Developer · Internship

- Understand the frontend and backend codebase.
- Constantly meet and plan with the development team.
- Refactor some ReactJS pages and components.
- Integrate some of the web API functionalities in the frontend UI.
- Test the API and backend implementation.

Tech Stack used: ReactJS, Node & ExpressJS, MySQL.

PROJECTS

HumanPose Estimation in Sport Analysis

2024 MAR - MAY

Data Analysis and ML Engineering · 4th year project

- AI-driven motion tracking and video analysis to provide detailed insights into sprinting form. On performance metrics, such as stride length and joint angles, instant velocity.
- Data collection, data labeling and augmentation, **YOLOv8 with SAHI transfer learning**, Cropping, 2D to 3D projection using homography and **camera projection**, Metrics calculation. Using: RoboFlow, OpenCV, Ultralytics Yolo, TensorFlow.

Movie Recommendation System Association

2024

Machine learning - Mini Project

A movie recommendation system using association rules mining. utilizing **TMDB API** to get the movies, then also tried Colaborative Filtering to explore further results, Using : ReactJS , Streamlit, FastAPI, apyori, Python, seaborn.

Chest X-ray COVID Classification - Transfer Learning

2024

Deep learning - Lab

The **Chest X-ray dataset from Kaggle** was utilized, consisting of four classes (COVID..). Data preprocessing involved normalization and a stratified hold-out strategy to split the dataset into 70% for training and 30% for validation. Three transfer learning models were developed to make a comparative analysis using the MobileNetV2 architecture with ImageNet pre-trained weights, using: Keras, TensorFlow, Python.