EL MANJA BILAL

Looking for 6 month internship starting februray 2024 in the AI field

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On my academic path, I cultivated strong analytical and critical thinking abilities. Drawn to the diverse challenges of artificial intelligence, I delved deeply into its many facets. I am eager to discuss my expertise further and present details of the projects I've undertaken.

Education And Certification

Education

Ecole Nationale Des Arts et Métiers ENSAM — 2021-24
Engineering degree: industrial engineering **Artificial Intelligence** and **Data Science** — Meknès, Morroco

Ecole Nationale Des Arts et Métiers ENSAM — 2019-21
2 years preparatory classes in advanced mathematics and physics — Meknès, Morroco

Sed Bin el-ouidane school — 2019
High school degree in mathematical sciences — Azilal-Afourer, Morroco

Certification

LinkedIn: Become a Data Scientist
LinkedIn: Azure Essential Training for Developers
Coursera: Google Advanced Data Analytics Specialization By Google
Coursera: Deep Learning Specialization By DeepLearning.AI
Coursera: Generative Adversarial Networks (GANs) Specialization By DeepLearning.AI
Coursera: Machine Learning Engineering for Production (MLOps) Specialization By DeepLearning.AI

Experiences

« Internship - IFM Electronics - Casablanca, Morroco » — 2023 - 3 months
This project entailed developing an anomaly detection system for predictive maintenance using TensorFlow and Keras, achieving up to 98% accuracy. Utilizing autoencoders, LSTMs, and MultiHead Attention Layers, it enabled proactive maintenance, optimizing machinery uptime.

« Personal Project – Morocco : » — 2023 – 5 months
This project revolved around the development of an innovative application for Stable Diffusion tailored to Realistic Human Models in fashion try-ons. Harnessing the power of Transformers and diffusion models for the computational backbone, the application promises a lifelike depiction of fashion on human models. Advanced artificial intelligence algorithms were employed to produce detailed representations of human figures, ensuring precise and authentic fashion fittings.)

Academical Projects

« ChatGiiads : LLM Open Source for industrial application » — 2023
This project is focused on creating a cost-effective open-source LLM solution using advanced techniques such as **RAG**, **Vector databases**, **LLM-Document interaction**, and **Agent Memory**, tailored for industrial applications, by undertaking exhaustive research, customized training, and user-friendly application development, the project aims to harness the power of AI for industrial contexts.

« Big Data - Anomaly Detection in Production Data » — 2023
This project involves aggregating sensor and machine data using Apache Kafka, Hadoop, and Spark to form a consolidated dataset. Utilizing machine learning techniques, it aims to identify abnormal patterns within the data and establish a real-time alerting system to notify of any anomalies

« Fraud Detection for an insurance company » — 2023
A Machine Learning project, involving advanced data preprocessing, the deployment of multiple models, and their subsequent performance evaluation using multiple metrics.

« Autonomous Robots : Control and monitoring platform » — 2023
Building an online platform with ReactJs and NodeJs to control and monitor the state of a group of autonomous robots

« Face Recognition System Based on Deep Learning » : — 2022
This project consists of building an application for Face detection System for security applications using pretrained Vision models.

Skills

Languages: – English: fluent – French: fluent – Arabic: Native

Programming language & Frameworks:

– Python
– Object-oriented programming Java
– ReactJS
– SQL
– C# & Flutter
–NodeJS

Academic:

– Machine learning & Deep learning
– Industry 4.0
– Lab Factory
– Data Science & Data Analytics
– Lean Six Sigma
– Generative AI / NLP

Sport and association:

Sports: Football, Swimming
CRIAM Club president Organization and participation in Robotics Competitions nationally