Ayman Lafaz

Machine Learning Engineering Student
In Search for End of Studies Internship

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EDUCATION

ENGINEERING DEGREE | AI
Ecole Nationale Supérieure d'Informatique et d'Analyse des Systèmes (ENSIAS) | Université Mohammed V
2020 - 2023 | Rabat, Morocco

CPGE | TSI
CPGE Salmane Elfarissi
2018 - 2020 | Salé, Morocco

SKILLS

TECHNIQUES
Time Series Analysis and Forecasting, NLP, Recommender Systems, Computer Vision, Classification, Regression and Clustering, MLOps.

PROGRAMMING
Python, R, Julia, SQL, Bash

MACHINE LEARNING TOOLS
Scikit-learn, XGBoost, TensorFlow, Pytorch, Keras, Nltk, Pyspark, Pandas, Numpy, Scipy

DATA ANALYSIS TOOLS
Pandas, Tidyverse, Shiny, ggplot, Plotly

DATA BASES
MySQL, MongoDB, Neo4J

MLOPS TOOLS
Google Cloud, DVC, Docker, Flask, Weights&Biases

EXTRACURRICULAR

ENSIAS AI - President and Later Advisor
Data & Chouafa - Co-Founder and Content Creator

CONTACT INFO

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Github: pillarxyz

EXPERIENCE

YANECODE DIGITAL | Machine Learning Engineering Intern
July 2022 - September 2022 | Remote
- Collecting Youtube Comments and Replies through YoutubeAPI
- Benchmarking of sentiment analysis models on Amazon Polarity Dataset
- Training and Integration of BERT model for sentiment analysis
- Development of a Web Interface for the Application using Flask
- **Tools** : Huggingface, Pytorch, YoutubeAPI, Flask, FastAPI, Neo4J

FREELANCER | Data Science and Machine Learning Freelancer
Part-time

- Data Science services in both **R and Python**
- Customer churn prediction
- Time series forecasting and analysis using **ARIMA, XGBoost and LSTM** for **Sustainable Energy**
- Hotel Reservation Value prediction microservice
- Parked domain names classification and Brand Logo Detection.
- Prediction of bipolar patients vs healthy controls using **RNA-seq** data

STEPS | Data Scientist Intern
July2021 – September2021| Rabat, Morocco
- Analysis of review data about different moroccan attractions using **NLP** and implementation of a **Recommender System** for a tourism web application.
- Deployement of a Hybrid MF model to **Google Cloud Platform** using **Docker** and **Flask API**.
- **Tools** : Python, Pandas, Lightfm, Mongodb, Docker, Google Cloud

PROJECTS

COMMA.AI SPEED CHALLENGE
- Prediction of car speed from videos using CNNs
- Implementation of Optical Flow Architecture for speed prediction
- **Tools** : Python, Pytorch, OpenCV

MOROCCAN STOCKS CLUSTERING
- Clustered over 70 Moroccan companies stocks into 4 clusters based on their trends to derive insights into how different companies got affected by the pandemic and built a pipeline to monitor and track the model and its metrics.
- **Tools** : Python, Pandas, tslearn, DVC, Weights&Biases, Docker

WIND ENERGY PRODUCTION FORECASTING
- Analyzed the influence of weather on energy production and built and compared 7 models (ARIMA, Decision Trees, Random Forest, SVM, ANN, RNN, LSTM) to forecast wind energy production.
- **Tools** : Python, Pandas, pmdarima, scikit-learn, Tensorflow