Ayman Lafaz

Machine Learning Engineering Student

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EDUCATION

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

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

BACCALAUREAT | STE
El-Farabi High School
2015 - 2018 | Salé, Morocco

SKILLS

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

PROGRAMMING
Python, R, SQL, C, Bash

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

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

DATA BASES
MySQL, MongoDB

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

EXTRACURRICULAR

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

EXPERIENCE

YANECODE DIGITAL | Machine Learning Engineering Intern
July 2022 - Current | Remote

- Developing a sentiment analysis pipeline for youtube comments

FREELANCER | Data Science and Machine Learning Freelancer
Part-time

- Data Science services in both R and Python
- HPC using CUDA, OpenMP, MPI in C, C++ and Julia
- Customer churn prediction
- Time series forecasting and analysis using ARIMA, XGBoost and LSTM for Sustainable Energy
- 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