

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, 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

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
- Development of a Web Interface for the Application using Flask
- **Tools** : Pyspark, 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**
- Parked domain names classification and Brand Logo Detection.
- Prediction of bipolar patients vs healthy controls using **RNA-seq** data

STEPS | DATA SCIENTIST INTERN

July 2021 - September 2021 | Rabat, Morocco

- Analysis of review data about different moroccan attractions using **NLP** and implementation of a **Recommender System** for a tourism web application.
- Deployment 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