Yassine AMAGHOSS
Junior Data Scientist

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EDUCATION

Paris Cité University (ex: Paris Descartes)
Paris, France

Master of Science - Machine Learning for Data Science; ***GPA: In Process***
October 2022 – June 2023

- **Relevant disciplines:** Dimensionality Reduction, Supervised Learning, Clustering, Co-clustering, Big Data, Data Engineering, Text Mining (NLP), Finite mixture models, Graph Theory, Reinforcement Learning.

The National Institute of Statistics and Applied Economics - (INSEA)
Rabat, Morocco

Engineering Degree - Major in Data Science; ***GPA: 3.7***
September 2019 – August 2022

- **Relevant disciplines:** Multivariate Statistics, Stochastic Calculus, Data Analysis, Time series analysis and Forecasting, Data Visualisation, Machine Learning, Deep Learning.

Classes préparatoires aux grandes écoles d'ingénieurs
Rabat, Morocco

Bachelor of Science - Mathematics and Physics; ***GPA: 3***
September 2016 – August 2019

- **Description:** Three-years undergraduate intensive program in Mathematics Physics and Computer Sciences with a preparation to the entrance exams for top Moroccan and French Engineering Schools.

High School Diploma
Casablanca, Morocco

A levels: Mathematics, Physics and Chemistry ; ***GPA: 4***
September 2015 – June 2016

PROFESSIONAL EXPRIENCES

Natixis Corporate Investment and Banking
Casablanca, Morocco

Data Scientist Apprentice
January 2023 – Present

- Collaborated with the DSI Global Markets team on prototyping, planning, designing, and implementation of Machine Learning-powered features for emphasizing business **process optimization**.
- Worked on decision support for deal validation, confirmations, and payments, and delved into automation and **anomaly detection** for core banking .

La Banque Centrale Populaire
Casablanca, Morocco

Data Scientist Intern
March 2022 – September 2022

- Developed an assistant system allowing the conversion of natural language to SQL (**NL2SQL**) using deep learning, emphasizing data privacy through RoBERTa embeddings.
- Leveraged data-agnostic knowledge vectors with **LSTM-based submodels** for efficient and accurate SQL query predictions.

Matis Aerospace
Casablanca, Morocco

R&D Data Scientist Intern
June 2021 – September 2021

- Developed a **time series model** to analyze and predict the material productivity for the different wiring bases held by Boeing and used the **Ljung-Box test** to verify the model's adequacy. Also estimated the associated losses.

PROJECTS

- **INSEA Chat-bot :** Designed and implemented a Chat-bot in Python to instantly address visitor inquiries using NLP, leveraging Rasa and Django libraries.

- **Driver Assistance System :** Engineered an image processing algorithm with Python's OpenCV library for automatic traffic sign detection, enhancing real-time driver alerts and traffic regulation adherence.

SKILLS SUMMARY

- **ML/DL Topics:** NLP, Recommender Systems, Generative Models, Time Series Analysis.

- **Programming Languages:** Python, R, R Shiny, SAS, MySQL, SPARQL, QGIS.

- **Frameworks/Libraries:** Pandas, numPy, SpaCy, Scikit-Learn, FLair, Rasa, Flask, Django, NLTK, Keras.

- **Tools/Infrastructures:** Git, Docker, Azure ML, MLOps.

- **Languages:** Arabic (Native), French (Bilingual), English (Fluent).

- **Soft skills:** Leadership, Networking, Process Mapping, Root Cause Analysis, Public Speaking.