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Mael-221 **?**

amine-el-maghraoui

EDUCATION

Boston University, Boston, MA, USA

January 2024 - August 2024

MS in Computer Information Systems, Concentration in Data Analytics

•EPITA Engineering School, Paris, France

September 2022 - January 2024

Engineering Degree in Computer Science, Majoring in Data Science

•EPITA Engineering School, Paris, France

September 2019 - June 2022

Preparatory Class, Computer Science and Mathematics

•André Malraux, French High School

September 2016 - July 2019

High school degree majoring in science with Honours.

EXPERIENCE

•Collective Thinking

June 2023 - February 2024

Junior Data Scientist

Paris

- Led an end-of-study research project to enhance accuracy in extracting textual information from medical documents using content analysis.
- Designed a modular pipeline architecture aligned with MLOPS principles, integrating image segmentation, dynamic OCR, rule-based text area filtering, and NLP named entity recognition.
- Achieved a 99% accuracy rate with robust scalability across diverse data types.

•Polyconseil

September 2022 - January 2023

Full-stack Developer Internship on the Coviflex Mission

Paris

- Contributed to front-end development using TypeScript and React.
- Addressed and resolved around thirty tickets, enhancing various application features.
- Assisted in reorganizing the domain configuration page to improve user navigation.

TECHNICAL SKILLS

Programming Languages: C#, Python (TensorFlow, PyTorch, Pandas, Numpy, Scikit-learn, Plotly), R, SQL, Rust, C++

Data Science and Machine Learning Skills: Classification, Regression, Clustering, CNN, RNN, NLP, LLM, Transformers, HuggingFace

Big Data and Cloud Technologies: Hadoop, Spark, Kafka, Azure, AWS

Tools and Frameworks: Git, Docker, Linux

Languages: French (Native), English (Fluent), Arabic (Fluent), Spanish (Intermediate)

Soft Skills: Effective Communication, Collaborative Teamwork, Analytical Problem-Solving, Dynamic Adaptability

PERSONAL PROJECTS

•ML for Cybersecurity: Outlier Detection

Developed models to identify attacks in cybersecurity datasets

- Analyzed data and visualized patterns to detect anomalies indicative of cyber attacks
- Implemented algorithms including Local Outlier Factor (LOF), Isolation Forest (IF), and Long Short-Term Memory (LSTM) networks for temporal series analysis
- Applied classification techniques such as XGBoost and Random Forest to enhance detection accuracy

•Boat Type Classification Challenge

Competed in a challenge to classify different types of boats using deep learning.

- Secured 2nd place among students from four different majors.
- Developed the model using TensorFlow and Keras.
- Created a convolutional neural network inspired by the VGG16 model.

•Personalized Food Recommendation System

Designed a system to provide personalized food recommendations for users.

- Used Pandas and Numpy for data manipulation and analysis.
- Implemented the system using Alternating Least Squares (ALS) matrices.