Yousra Yakhou

Artificial Intelligence Student

✉ yakhouyousra@gmail.com 📞 +33668573758 in www.linkedin.com/in/yousrayakhou ⬡ github.com/yousrayk

EDUCATION

Ecole CentraleSupelec   **September 2024 – December 2025**
Master of Engineering M2 in Artificial Intelligence   **Gif-sur-Yvette, France**
• Ranked among top 4% for admission to the Master's.

ESSEC Business School   **2023 – 2024**
BBA AFRIQUE   **Rabat, Morocco**
• Ranked among top 10% for admission to the ESSEC Exchange Program (International Negotiation and M&A).

Ecole Centrale Casablanca   **September 2022 – June 2024**
Bachelor in Computer Science   **Casablanca, Morocco**
• Awarded scholarship for best exam results in class of 180+ students.

EXPERIENCE

BCG X - Paris, France   **October 2024 – Ongoing**
Professional Development Program
• Engaged in case studies program with a group of women mentored by BCG consultants, focusing on Data Science.

Oracle - Casablanca, Morocco   **June 2024 – September 2024**
Research Assistant in Machine Learning
• Developed an AI assistant using LLMs and RAG, for engineers' support, reducing resolution times by 40%.
• Built an automated reporting pipeline with Sonatype API for Maven statistics, delivering monthly KPI dashboards and cutting manual effort by 30%.
• Offered a full-time position after internship.
• Tools: PyTorch, LLaMA2, Matplotlib, Seaborn, requests, Plotly, Dash, Sonatype API, Nexus Repository Manager.

UM6P - MAScIR - Rabat, Morocco   **Feburary 2024 – June 2024**
Research Assistant in Artificial intelligence
• Conducted a benchmark study on Automatic Speech Recognition (ASR) models for processing elderly voice recordings to develop personalized support.
• Fine-tuned Wav2Vec 2.0 and Whisper models achieving a WER score of 0.13 on Whisper-medium.
• Tools: Jupyter, Python, Pandas, PyTorch, librosa, Wav2Vec 2.0, Herbert, and Whisper.

Taager - UAE   **October 2023 – January 2024**
Data Science Apprenticeship
• Developed a NLP model for Sentiment Analysis of customer feedback for e-commerce, in order to reduce customer queries related to dissatisfaction by 30% within the first 6 months.
• Developed the business model and R&D review for the SaaS solution.
• Tools: Python, Tokenizer, ARABERT, MARBERT, TRELLO (Scrum), numpy, pandas.

Ecole Centrale Casablanca - Casablanca, Morocco   **July 2023 – October 2023**
Research Assistant in Artifical Intelligence
• Conducted a comparative study among different LLMs using Mohler's dataset for automatic short answer grading(ASAG), to evaluate their efficacy in comparison to existing methodologies. ELMo achieved a RMSE score of 0.980.
• Conducted an ethical study considering similarity scores and the methods employed to compare words in education.
• Worked on a **Research Paper: LLMs for Automated Response Evaluation**.
• Tools: NLTK, Torch, AllenNLPbert_embedding, NumPy, pandas, ELMO, Bert, GPT-3.

Ecole Centrale Casablanca - Casablanca, Morocco   **Feburary 2023 – June 2023**
Research Assistant in Machine Learning
• Conducted Data Cleaning, exploration, and feature extraction for a **Healthcare Project : Detection of microcalcifications in mammography**
• Developed the supervised model for imbalanced classification (Accuracy: 0.99 and F1 score: 0.61).
• Tools: sklearn, numpy, pandas, joblib, sklearn, matplotlib, seaborn, FastAPI, Docker, Prometheus/Grafana tandem.

ADDITIONAL INFORMATIONS

• **Certifications: Google Project Management**(Coursera 2023) **BCG Data Science Internship :**(Job Simulation 2023).
• **Technical Skills:**
• **Programming Languages:** Experienced in Python, JavaScript, SQL, PL/SQL. Familiar with C, C++, Java.
• **Databases:** Oracle Database, MySQL.
• **Other:** Git, Docker, Oracle Cloud Infrastructure (OCI), API Restful.
• **Language Skills:** English (Business Professional), French (Business Professional), Italian (Native-Bilingual).