Hamza imloul

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in hamza-imloul

ML Engineer focused on data-driven systems, with a strong engineering foundation. Experienced in deploying scalable services, and delivering end-to-end ML pipelines that improve accuracy. Expert in bridging the gap between advanced research and practical business applications across cloud platforms.

▬: Experience

Machine Learning Engineer

DXC Technology   *09/2022 – Present*

- Architected and deployed production-grade Multi-Agent Workflows, automating end-to-end data extraction from unstructured enterprise documents.
- Engineered a scalable Agentic Orchestration Microservice integrated into a legacy enterprise stack, utilizing Amazon ECS for high availability, Optimized asynchronous task execution, resulting in a reduction in case processing latency and enabling real-time status tracking for daily requests.
- Engineered a scalable fine-tuning pipeline for bi-encoder (retrieval) and cross-encoder (re-ranking) models, incorporating synthetic data generation with hard-negative sampling, improving Top-5 retrieval precision while maintaining a strict less than 200ms inference latency SLA.
- Led knowledge-sharing initiatives through technical workshops, Co-authored 3 strategic internal white-papers, directly influencing the company's AI roadmap.

Backend Developer

Freelance   *02/2021 – 08/2022*

- Delivered client-facing analytics dashboards, including 3 consultancy collaborations; containerized Web apps, and automated deployments.

Data Analyst

Mixtra   *09/2019 – 10/2020*

- Built a real-time fleet anomaly detection pipeline for 100+ vehicles using streaming ETL and geospatial visualizations, reducing anomaly detection lead time and enabling proactive interventions.
- Implemented a capacitated routing optimizer that reduced empty miles and increased vehicle utilization.

Operations Analyst Intern

Shell & Vivo   *02/2018 – 06/2018*

- Developed an EAC-based decision-support tool for maintenance planning and produced CMMS-ready specifications that standardized asset renewal decisions and reduced projected maintenance spend.

▬: Skills

Programming: Python, C++, SQL, JavaScript

Platforms & Tools: Docker, Jenkins, AWS, Terraform, PyTorch, HuggingFace

Languages: English, French, Arabic

▬: Education

M.Sc. in Industrial Engineering

Mohammadia School of Engineering (EMI)   *2014 – 2018*
- Mathematical modeling, Operations research, Data Science, Signal processing

Associate of Science in Mathematics

Ibn Zohr University: Focus on Algebra, Analysis, Physics, and Computer Science   *2012 – 2014*

▬: Certifications

2020: Foundations of Strategic Business Analytics, ESSEC, Coursera