Hamza imloul

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in hamza-imloul

Experienced Data Scientist with a strong background in machine learning and software development. Skilled in Implementing and deploying solutions for complex business problems. Proficient in multiple programming languages and cloud platforms

■: Experience

Data Scientist

DXC Technology   *09/2022 – Present*

- Implemented production-grade AI solutions, including information retrieval systems and agentic workflows automating data extraction from documents.
- Delivered an agentic graph-based workflow that interacts with APIs and external services, automated business processes.
- Engineered a scalable fine-tuning pipeline for bi-encoder and cross-encoder retrieval models, incorporating synthetic data generation with hard-negative sampling to improve retrieval quality and maintain controlled latency.
- Led knowledge-sharing initiatives through technical workshops, co-authored whitepapers, and published articles on AI developments for company innovation leadership.

Python / R Developer

Independent Contractor   *02/2021 – 08/2022*

- Delivered several data products and interactive analytics dashboards for clients; responsibilities included data analysis, visualization, and deployment.

Data Analyst

Mixtra   *09/2019 – 10/2020*

- Developed a real-time fleet anomaly detection system for 100+ vehicles, integrating geospatial visualization and streaming data processing, improving observability.
- Implemented a dynamic trip assignment optimizer for regional truck routing using capacitated routing heuristics to reduce empty miles and improve utilization.

Operations Analyst Intern

Shell & Vivo   *02/2018 – 06/2018*

- Built a decision support tool to optimize equipment renewal and maintenance, using the Equivalent Annual Cost (EAC) function; Delivered CMMS specifications to manage assets and supporting the tool.

■: Skills

Programming: Python, C++, SQL, JavaScript

Platforms & Tools: Docker, Jenkins, AWS, 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

Diploma (2-yr) in Mathematics

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

■: Certifications

2020: Foundations of Strategic Business Analytics, ESSEC, Coursera