

Hamza imloul

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in hamza-imploul

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

■: Experience

Data Scientist

DXC Technology

09/2022 – Present

- Led multiple Gen-AI projects, including the development of an information retrieval chatbot for insurance-specific data.
- Developed an AI agent that interacts with OpenAPI and Hypermedia based APIs.
- Fine-tuned and deployed transformer-based models, improving metrics for insurance domain applications. #PyTorch, AWS
- Engineered a pipeline for synthetic data generation using hard-negatives sampling to fine-tune a bi-encoder model.

Python/R Developer

Independent Contractor

02/2021 – 08/2022

- Developed and deployed custom Data & Analytical web applications for various clients. #Python, R, Docker, Azure
- Created programmatic data visualizations and designed interactive dashboards.

Data Analyst

Mixtra

09/2019 – 10/2020

- Developed a real-time fleet anomaly detection tool for 100+ vehicles, evaluating mobility visualized on spatial maps.
- Designed and implemented a dynamic trip assignment tool for trucks, optimizing routes in specific regions.

Operations Analyst Intern

Shell & Vivo

02/2018 – 06/2018

- Created a cost-saving decision support tool for equipment renewal and maintenance modeling.
- Provided specifications for a Computerized Maintenance Management System (CMMS).

■: Skills

Programming: Python, C, R, SQL, JavaScript, Lua

Tools & Platforms: Git, Bash, Docker, Jenkins, AWS, Azure, HuggingFace, PyTorch

Languages: English, French, Arabic

■: Education

M.Sc. in Industrial Engineering

Mohammadia School of Engineering (EMI): Specialization in Data Science and Optimization

2014 – 2018

BSc in Mathematics

Ibn Zohr University: Focus on Algebra, Analysis, Physics, and Computer Science

2012 – 2014

■: Certifications

2020: Foundations of Strategic Business Analytics, ESSEC, Coursera

■: Projects

Discrete Optimization: Implemented Capacitated Pickup & Delivery Vehicle Routing for urban taxi services.

OCR: Developed an automated tool for structured data migration from scanned invoices using Tesseract.

NLP: Fine-tuned BERT based model for Semantic search using PyTorch.