AMINE HAMMAMI

Data Analyst & Engineer | BI Analyst

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French, English

EDUCATION

Université du Québec à Montréal, Canada *September 2022 - February 2025*
Master's Degree in Data Intelligence and Management

Université Internationale de Tunis, Tunisia *October 2018 - November 2021*
Bachelor's Degree in Information Technology

SKILLS

Languages	Javascript, Python, R, Scala
Tools	Excel, Visio, Power Automate
Big Data	Spark, Hive, Pig, ElasticSearch, Neo4J, Databricks, Synapse Analytics
Visualization	Power BI, Tableau
Languages	French, English
Databases	Oracle, MongoDB, SQL Server Management Studio, Azure Synapse Analytics
Ecosystem	Microsoft Azure

PROFESSIONAL EXPERIENCE

Ministry of Immigration, Francisation and Integration January 2024 - May 2024
Data Engineer Intern

- Developed a proof of concept for an Azure Lakehouse integrating Databricks, Synapse, and Power BI.
- Designed data transformation pipelines: ingestion in bronze, processing in silver, and modeling in gold.
- Applied data modeling techniques (normalization, joins, etc.) to provide a coherent view of disparate immigration-related data and facilitate its use.
- Built an interactive dashboard in Power BI allowing users to visualize trends and key immigration indicators to support data-driven decision-making.

Ministry of Immigration, Francisation and Integration February 2023 - February 2025
Administrative Analyst

- Managed the GSI system (Integration Services Management) and responded to usage-related requests.
- Ensured data compliance entered by partner organizations into GSI.
- Identified, analyzed, and documented system anomalies, ensuring communication between the implementation team and end users.
- Created and maintained clear and accessible user guides and FAQs to support partner organizations and ministry staff.
- Actively contributed to task automation using Python, Excel report generation, process mapping, and Power BI reporting.

ACADEMIC PROJECTS

Movie Recommendation Based on Association Rules

- Built a movie recommendation system using various association mining algorithms (Apriori, FP-Growth, etc.).

Song Recommendation with Neo4J

- Developed a content-based recommendation system for Spotify using song audio features (genre, BPM, energy, key) to suggest similar tracks. The model works independently of listening history, enabling personalized recommendations even for new users.

Real Estate Price Prediction Model

- Scraped data from a real estate website using Python, extracted essential property features, and trained several machine learning models to predict housing prices.