

Mohamed Iyadh Tajouri *Data Scientist*

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Profile

As a junior Data Scientist with a strong foundation in computer engineering, I possess a dynamic skill set tailored for data-driven problem-solving. Proficient in Python programming and machine learning techniques, I've successfully contributed to predictive modeling projects that enhanced decision-making accuracy. Leveraging my expertise in data visualization, I've transformed complex datasets into actionable insights, aiding strategic planning. Recognized for my dedication and adaptability, I'm driven to further refine my skills and collaborate on innovative projects that drive business growth. Looking ahead, I am committed to building a successful career, continuously acquiring new skills, and contributing meaningfully to data-driven solutions that propel organizations forward.

Professional Experience

2022/01 – 2022/10

End-of-study internship

BFC (Banking and Financial Council) ☑

Designed and developed a DIS for the Banking and Financial Council

Tasks:

- Designed and executed a comprehensive Decisional Information System (DIS) aimed at streamlining data-related processes.
- Implemented data collection, enhancement, storage, and aggregation strategies, ensuring efficient decision support.
- Utilized cutting-edge technologies including **Python** for advanced **machine learning**, **Talend** for ETL processes (Extract, Transform, Load), **PostgreSQL** for robust data storage, **Power Bi** for insightful data visualization.
- Deployed the Solution using **Angular** for front-end development, and **Spring Boot** for seamless backend integration.

Achievement:

- Played a pivotal role in significantly enhancing the Banking and Financial Council's decision-making processes, enabling timely and accurate strategic choices.
- Effectively disseminated the DIS solution to diverse stakeholders within the banking sector, encompassing banks and financial institutions, thereby fostering accurate and timely decisions across the industry.
- This experience exemplified the fusion of data science and business intelligence, offering insights into real-world applications within the financial domain.

2021/07 – 2021/10

Professional Technician Internship (Remote)

Momentum Technologies (located in Quebec,Canada) ☑

Designed and developed a comprehensive candidate self-assessment application that revolutionizes the assessment process:

Tasks:

- Conceptualized and engineered an innovative self-assessment platform, enabling candidates to evaluate their qualifications in relation to their profiles.
- Leveraged **Oracle** 19C database management for robust data storage and retrieval.
- Utilized **Apex** 21.1 to craft a user-friendly web-based interface for seamless interaction.
- Employed **Java** for dynamic and interactive functionalities, enhancing user engagement.
- Employed **SQL** for efficient data manipulation and retrieval, optimizing system performance.

- collected Data and Utilized **Power BI** for insightful data visualization.


Achievement:

- Successfully delivered an integrated solution that empowers candidates to assess their suitability for roles based on their unique attributes.
- This initiative not only enhances the candidate and recruiter experience but also significantly accelerates the hiring process by optimizing workflows, ultimately contributing to more informed decision-making.

Education

2017/09 – 2022/12

Engineering degree in Computer Science

ESPRIT (Private College of Engineering and Technology) 

- Specialized in the field of **Data Science** | **Business Intelligence**

Skills

Hard Skills

Machine Learning | Deep Learning | Statistical Analysis and computing | Processing Large Data Sets | Data Cleaning and Preprocessing | Data Visualization | Natural Language Processing (NLP) | Problem Solving | Quality Management | Agile Methodologies

Programming Languages and Tools

Python (NumPy, Pandas, Scikit-Learn, Keras, Flask) | R | Java | HTML | CSS | SQL (MySQL, Postgres) | Tableau and Power Bi | Git

Projects

Text Recommendation System

Data Science Project

Tasks:

- **Elevated recommendation systems** by seamlessly **integrating semantic insights through advanced NLP techniques and ontologies**.
- Engineered personalized content delivery to **alleviate information overload for users**.
- Managed project with meticulous adherence to **PMI standards and PMBOOK 5th**, ensuring comprehensive project management.
- Leveraged my proficiency in **Python to preprocess, analyze, and transform textual data**.
- Employed **machine learning algorithms to fine-tune recommendation accuracy and relevance**.
- Developed a user-friendly interface for deploying my application using **Django**, ensuring ease of use and accessibility for users.

Achievement:

- The success of this project garnered notable recognition from esteemed professors, underscoring its innovative approach

EPI-Tech

Data Science Project for neurologists that predicts whether a given patient has epilepsy

Tasks:

- Led the conceptualization and execution of a **web application targeting neurologists**.
- Integrated advanced **Deep Learning and Machine Learning** models for **epilepsy prediction**.
- Utilized **Python** and Google Colab for robust model development, in-depth analysis and experimentation.
- Seamlessly integrated **Flask** to provide a user-friendly interface for medical professionals.

Achievement:

- Successfully developed a diagnostic tool that holds the potential to revolutionize patient care and assist neurologists in accurate epilepsy diagnosis.
- This endeavor underscores my ability to merge medical insights with advanced technologies.

Telco Customer Churn Prediction

Machine Learning Project

Tasks:

- Spearheaded the development of **predictive models** for **customer churn** in the telecommunications domain.
- Applied **supervised learning** techniques to analyze customer data and forecast unsubscriptions.
- Utilized **Python** and Google Colab for robust model development, optimization, and analysis.
- Incorporated the **CRISP-DM (Cross-Industry Standard Process for Data Mining)** framework as a reference model to ensure systematic project execution.

Achievement:

- Successfully crafted predictive models that significantly contributed to enhancing the company's customer retention strategies.
- This project exemplifies my skills in Data Analysis and my capability to apply machine learning techniques to real-world business challenges and generate valuable insights that directly impact business decisions.

Certificates

Coding Dojo Africa Certificate 2023 : Data Science and Machine Learning Bootcamp (Ranked Among Forbes Magazine's Top Three Bootcamps Globally)

- By actively engaging in this experience, I acquired extensive hands-on expertise in the realm of data science. Gaining a comprehensive understanding of the entire data science process from end-to-end, including data prep, data analysis, and visualization, I further honed my skills in properly applying machine learning algorithms to diverse situations or tasks.

NVIDIA Certification 2021: Fundamentals of Deep Learning for computer vision.

NVIDIA DLI Certificate OF COMPETENCY

Huawei Certification 2021: Successfully obtained the HUAWEI HCIA-IA certification (Artificial Intelligence)

Certificate No. 010102001825808442691109535

Taekwondo Dan Certificate 2020: 2nd Dan black belt.

I passed the promotion test in Taekwondo organized by KUKKIWON (world headquarters of Taekwondo) and successfully obtained the 2nd Dan black belt.

Poom/Dan No: 05680837

Languages

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| • English | • French | • Arabic |
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