

HADIL SAHRAOUI

DATA SCIENTIST

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OBJECTIVE

Recent Data Science graduate seeking a full-time Entry Level Data Scientist role

SKILLS

Programming	Python (Pandas, NumPy, Scikit-learn), SQL, Jupyter Notebook
ML & DL Techniques	Classification, Regression, Clustering, CNN, TensorFlow, Keras
Data Analysis Tools	NumPy, SciPy, Seaborn, Matplotlib, Excel, Power BI, Tableau
NLP & LLMs	NLTK, HuggingFace, Transformers, AI Agents, LangChain, RAG, ChromaDB
Data Engineering & Pipelines	Databricks, Apache Spark, Airflow
MLOps & Deployment	Docker, MLflow, FastAPI, Django, REST APIs

EXPERIENCE

Data Scientist Intern Orange Tunisia	Feb 2025 - Aug 2025 <i>Tunis, Tunisia</i>
• Built churn prediction model with 90% recall and performed customer segmentation using K-Means clustering, achieving a Silhouette Score of 0.85.	
• Leveraged Qwen 2.5 LLMs with advanced prompt engineering to generate personalized marketing content.	
• Deployed a Django web application with real-time predictions, secure authentication, and Docker containerization for scalability.	
Data Scientist Intern ATB (Arab Tunisian Bank)	Aug 2024 - Sep 2024 <i>Tunis, Tunisia</i>
• Built an OCR-based cheque autocorrection system using KNN and NLP to detect and correct mismatches between digits and words, achieving 92% accuracy.	
• Developed and deployed a Django web application with Power BI dashboards for real-time monitoring, reporting, and improved cheque validation efficiency.	
Data Analyst Intern Artibedded	Sep 2023 - Dec 2023 <i>Tunis, Tunisia</i>
• Collected and processed data from web scraping and LLM-driven pipelines, performing data cleaning, preprocessing, and feature engineering for analysis.	
• Conducted exploratory data analysis (EDA) and created visualizations using Python (Matplotlib, Seaborn) and Power BI dashboards to derive actionable insights.	

EDUCATION

Engineering Degree in Data Sciences , National School of Electronics and Telecommunications	Sep 2025
Relevant Coursework: Machine Learning, Deep Learning, NLP, Big Data, Data Visualization, Decision Systems, Data Analysis	

Preparatory Cycle for Engineering Studies , Preparatory Institute of El-Manar	2020 - 2022
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PROJECTS

Automated Attendance Tracking System	Developed a CNN-based face detection and recognition system for automated attendance, achieving 88% real-time accuracy through image preprocessing and model optimization.
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Credit Card Fraud Detection	Built and optimized an end-to-end ML pipeline for fraud detection, performing data preprocessing, feature engineering, and model evaluation to reach 87% accuracy.
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RAG Chatbot (Orange Tunisia)	Designed an intelligent chatbot using RAG architecture and Qwen LLMs, enabling semantic retrieval from CSV data via ChromaDB and automated response generation
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Social Media Analysis for Depression Detection	Built an automated system to collect and analyze Facebook and Twitter data for depression detection, using NLP and pretrained transformer models for sentiment and mental health classification. Processed and stored data in MongoDB and deployed the solution via a REST API and Docker.
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