

OUMAIMA ABJAOU

Business Intelligence & Analytics Engineering Student / AI Enthusiast

📧 oumaimaab01 | 🌐 oumaima-abjaou | ✉ abjaou.oumaima2002@gmail.com | 📞 +212 6 42.67.71.64 🌐 oumaima-abjaou

EDUCATION

2022 - present Business Intelligence & Analytics Engineering at **ENSIAS**, Rabat, Morocco
2020 - 2022 Preparatory Classes (Physics, Engineering Sciences) at **CPGE Med Reda Slaoui**, Agadir, Morocco

EXPERIENCE

Data Science Intern

Jul 2024 - Sep 2024
Sofrecom Morocco, Sala Aljadida

Helping the IT team to efficiently solve problems by using an ML solution to automate incident identification and root cause analysis.

Skills: Client Interaction · Machine Learning · NLP · FastAPI · Docker

Business Intelligence Intern

Jun 2023 - Aug 2023
D&A Technologies, Casablanca

Implementing and optimizing a Business Intelligence solution tailored for the retail sector to enhance informed and strategic decision-making.

Skills: Data Warehousing · PostgreSQL · Talend · Tableau DESKTOP

PROJECTS

Development of an Intelligent System for Disease & Food Interaction Discovery

Fine-tuning selected large language models (LLMs) such as Gemma, GPT-2, and Llama 2 with health data to enhance their performance and accuracy in this specific domain.

Skills: Web Scraping, Generative AI Tools, Python, Hugging Face Transformer, Fine-tuning LLMs

Pipeline Project with Airflow

Designed and implemented data pipeline, transformation, containerization, ingestion, and aggregation of data using YouTube Data API for sentiment analysis of comments.

Skills: Airflow, Docker, Apache NiFi, Kafka, PowerBI Visualization

Data Warehousing Project for ForestAI

Designed and implemented a comprehensive data warehousing solution, including data loading with SSIS, relational database creation, and dynamic data visualization using SSAS cubes, along with reporting dashboards created in SSRS and Power BI.

Skills: SQL Server, SSIS, SSAS, Reporting (SSRS, Power BI)

HVAC Occupancy Detection

Implementing machine learning and deep learning algorithms to help the HVAC sector in predicting room occupancy, alongside conducting a comparative analysis of classification algorithms.

Skills: NumPy, Pandas, Scikit-learn, Matplotlib, PyTorch, TensorFlow

Exploration and Comparison of Python Libraries for ML in Terms of Performance

Evaluating and comparing popular Python machine learning libraries based on accuracy, usability, and execution time to offer insights for data scientists to make informed tool choices.

Skills: Comparative study, Scikit-learn, TensorFlow, Keras, PyTorch, XGBoost, LightGBM, CatBoost

TECHNOLOGIES

Languages: Python, SQL, PL/SQL, C, R, JAVA, HTML, JavaScript, CSS

Libraries/Frameworks: NumPy, Pandas, TensorFlow, PyTorch, Scikit-learn, Selenium, BeautifulSoup, NLTK, FastAPI

Database Administration: SQLServer, PostgreSQL, MySQL, Oracle Database, MongoDB

Data Integration/Reporting: Talend, SSIS, SSAS, SSRS

Big data: Hadoop, Apache Spark, ELK Stack

Project Management Tools: JIRA, Trello, Notion

Platforms/Others: Docker, Git, GitHub, Linux, L^AT_EX

CERTIFICATIONS

Finalist of the Orange Morocco Mega Pan-African Hackathon (Orange Digital Center)

BCG - Data Science Job Simulation (FORAGE)

Introduction to Cloud Computing (IBM)

Data Visualization (Kaggle)

LANGUAGES

English: Professional working proficiency

French: Bilingual proficiency

Arabic: Native language

EXTRACURRICULAR ACTIVITIES

UM5 Ambassador, Mohammed V University

Sponsorship Manager, Olympiades ENSIAS Committee

Skills: Leadership, Communication, Event Organization, Negotiation, Teamwork.