# OUMAIMA ABJAOU

*Graduate in Business Intelligence & Analytics*

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## EDUCATION

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

## EXPERIENCE

**BI & Data Engineer Intern**  
*Feb 2025 - Present*  
*Les Domaines Agricoles, Casablanca*

Design and deployment of a BI solution to automate KPI's collection, analysis and reporting for the Strategic Management of agricultural Business Units, aiming to improve performance tracking and decision-making across technical, financial, environmental and human dimensions.
**Skills:** SQL Server · Data Modeling · ETL (Stored Procedures & SSIS) · IBM Cognos Analytics · Fact & Dimension Tables · KPI Analysis · Report Automation · Problem Solving

**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

## PROJECTS

**Real time stock market prediction using sentiment analysis on social network**
Designing a big data application to process and analyze massive real-time datasets from social networks (Reddit) and financial sources (Yahoo Finance). Implementing predictive models (LSTM, ARIMA) and a dashboard for visualization.
**Skills:** Big Data, Sentiment Analysis, Machine Learning, Kafka, Spark Streaming, MLflow, Elastichsearch, Kibana

**Business Intelligence System for Educational Access Analysis**
Designed and implemented a BI solution for analyzing and visualizing key indicators related to educational access, disparities, and inclusivity. Tasks included defining functional requirements, building a multidimensional data model, and creating interactive dashboards for decision-making support.
**Skills:** SQL Server, SSIS, SSAS, Power BI

**Data Pipeline Implementation for Sentiment Analysis Using YouTube Data API**
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, Tableau

**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)

## TECHNOLOGIES

**Languages:** Python, SQL, C, R, JAVA
**Database Administration:** SQL Server, PostgreSQL, MYSQL, Oracle Database
**Data Integration/Reporting:** Talend, SSIS, SSAS, SSRS, Tableau, PowerBI
**Data Engineering & Big Data:** Hadoop, Spark, Kafka, Hive, NiFi, Airflow, ELK Stack
**Tools & Platforms:** Git, GitHub, Docker, Linux, JIRA

## LANGUAGES

**English**: Professional working proficiency
**French**: Bilingual proficiency
**Arabic**: Native language