

Data engineer with 3 years of experience and a deep interest in data architecture and cloud solutions. Experienced in building ETL pipelines, database management and workflow automation. Always eager to learn and take on new challenges in data engineering.

WORK EXPERIENCE

CAPGEMINI - CLIENT : AIRBUS DATA ENGINEER

Toulouse, France
JAN 2023 - Present

- Extracted, Transformed and Loaded data using the Spark framework on Foundry to handle structured datasets from SAP, processing CSV and JSON file formats for seamless integration.
- Configured and developed the Foundry Workflows infrastructure under SQL, including the design of core SQL queries to create relational trees for REST API requests.
- Implemented an automated data pipeline using an ontology object, reducing disk usage, indexed storage, and interactive computation costs by 33%.
- Automated the Export Control order process using Foundry Automate, reducing clients' repetitive workload by over 20% .
- Worked collaboratively in an Agile team of seven to develop over 300+ user stories.

SAFRAN HELICOPTER ENGINES DATAVIZ DEVELOPER

Bordes, France
Oct 2022 - Jan 2023

- Implemented a data monitoring solution to feed the SQL database
- Extracted required information from multiple internal sources to populate the dashboard.
- Created a tool to streamline operational maintenance management.
- Enhanced tracking of supplied parts by implementing automated alerts and reminders (Power BI)

TOTALENERGIES DATA SCIENTIST


Pau, France
Apr 2021 - Sep 2022

- Analyzed and processed real-time seismic images.
- Prepared and augmented data for convolutional neural networks.
- Developed and evaluated deep learning models, trained them, and denoised seismic data using the UNET model.
- Designed a plugin to integrate the model into TotalEnergies' internal platform.


INRS-QUEBEC DATA SCIENTIST - INTERN

Quebec city, Canada
Mar 2020 - Sep 2020


- Gathered, prepared and cleaned data before the training phase.
- Designed the architecture of a Machine Learning model and optimized hyperparameters.
- Tested, validated, and applied the selected Machine Learning model (Random Forest) to make predictions on other petroleum fields.

 Toulouse, France

 hello@karimmajdoub.com

 +33 7 83 10 71 78

 [Abdelkarim MAJDOUB](#)

 [KarimMAJDOUB](#)

 [Karim MAJDOUB - Portfolio](#)

LANGUAGES

English : Professional Working Proficiency

French : Professional Working Proficiency

Arabic : Native

INTERESTS

TV documentaries

Music

Movies

Football

PROJECTS

PETROLEUM PRODUCTION FORECASTING USING MACHINE

LEARNING (PYTHON, SQL)

In 2018, the Norwegian oil company Equinor released an extensive dataset covering subsurface and operational aspects of their Volve oil field in the North Sea. Since then, this has been a boon for enthusiasts eager to enhance and tackle challenges in oil and gas field studies across universities, research institutes, and companies.

This project presents the application of a supervised machine learning technique, specifically the random forest approach, in predictive data analytics to predict oil and gas production rates.

OPTIMIZING FLIGHT DATA ANALYSIS WITH SKYWARD

INSIGHTS DATA PIPELINE (PYTHON, SQL, AWS, SPARK, POWER BI)

This project is designed to extract comprehensive flight data from various flight APIs, process it through a robust data pipeline, and finally, construct an insightful dashboard for in-depth analysis. With the power of data engineering and analytics, we aim to provide valuable insights into the world of aviation, helping you make informed decisions based on real-time and historical flight data.

SKILLS

**PYTHON, SQL, MONGODB, SPARK, PALANTIR FOUNDRY, AWS,
DATABRICKS, POWER BI**

EDUCATION

2022 - Master's degree in Artificial Intelligence & Management

IA School - Elearning Campus

2021 - Master's degree in complementary skills in computer science

University of Claude Bernard Lyon1

2020 - Master's Degree in Petroleum Engineering

University of Pau and Adour Countries

2016 - Bachelor's Degree in Drilling Engineering

University of Carthage

CERTIFICATIONS

2025 - AWS Certified Cloud Practitioner

2024 - Language test certificate (English : Level B2) - ICIMS