

WESSIM SLIMI

Cloud Data Engineer, & ML Engineer & AWS Solution Architect Certified

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PROFESSIONAL EXPERIENCE

Cloud Data Engineer (freelance)

CMA-CGM

📅 Sept 2021 - Present 📍 Marseille, France

Data Architect & Engineer on various projects aiming to ensure continuous and real-time monitoring of navigation data to enhance the safety and operational efficiency of the maritime fleet. The objectives include route optimization, breakdown prevention, and reduction of maintenance-related costs.

- **Streaming Architecture** : Designed and implemented a real-time data streaming system for a fleet of ships, enabling low-latency data collection and analysis via satellite connections.
- **Data Lake** : Deployed an Apache Iceberg-based data lake on Amazon S3 in Parquet format, seamlessly integrated with Snowflake and Athena, ensuring secure and efficient querying and analytics with robust data privacy measures.
- **Processing Pipelines** : Developed real-time and batch processing pipelines using Apache Flink and Apache Spark in Java, providing continuous monitoring of critical navigation data.
- **Cloud Migration** : Led the migration of a legacy data processing architecture to a cloud-based solution on AWS, incorporating both ETL/ELT and batch/streaming processing capabilities.
- **Predictive Maintenance** : Implemented predictive maintenance and routing algorithms to enhance fleet safety and operational efficiency.
- **ML Model Deployment** : Designed and industrialized machine learning models into APIs for scalable deployment.

AWS Apache Flink Apache Airflow Apache Kafka Apache Iceberg Docker IaC
Terraform S3 Kinesis MLflow MQTT IoT Core Snowflake

Cloud ML Engineer

EDF Renewables

📅 Aug 2020 – Sept 2021 📍 Montpellier, France

ML Engineer

- Development and Deployment of predictive ML models in the field of renewable energies: Predictive Maintenance, Fault Detection, Anomaly Detection.
- Implementation of various data pipelines: Real-time & Streaming.
- Deployment, productionization, and monitoring of ML models.
- Technical definition of business needs, objectives, and KPIs for Data projects.
- Contribution to the establishment of the Data projects' Roadmap.

Azure Blob ADLS Gen2 Azure ML Azure Data Factory Azure AD Python
MLflow Predictive Maintenance PI OSISOFT

Data Scientist in Actuarial Studies

AXA FRANCE IARD

📅 March 2020 – August 2020 📍 Paris, France

AI Approach in pricing optimization: Price elasticity

- Modeling and predicting the probability of cancellation of an auto insurance policy
- Modeling price elasticity: Partial dependence plots, Shap Values
- Prediction and Optimization of the Commercial Premium using created cancellation and elasticity models
- Optimization of the commercial premium under elasticity and markup constraints
- Implementation of the complete pipeline from data stream reading to prediction

Python MS Azure ADLS Gen2 Blob Azure Data Factory Azure ML Tensorflow
XGBoost CVXOPT Azure Databricks Spark

PROFESSIONAL CERTIFICATIONS

AWS Certified Solutions Architect - Associate
DP-203 : Microsoft Azure Data Engineer Associate
DP-100 : Microsoft Azure Data Scientist Associate
AZ-104: Microsoft Azure Administrator

EDUCATION

Master's in Engineering

IMT Atlantique (ex. Telecom Bretagne)

📅 September 2018 – September 2020

- 3Y : Mathematical & Computational Engineering: Theory and application of Machine Learning & Deep Learning algorithms, Mathematical Optimization Algorithms, Stochastic Modeling.
- 2Y : Operations Research, Combinatorial Optimization Algorithms, Integer Linear Programming, Constraint Programming, Solvers, Java, C++.

Master's Degree in Telecommunications Engineering

Higher School of Communication of Tunis

📅 September 2017 – September 2020

- 2Y: Digital Communications, Modulation Techniques, Fundamentals of Computer Networks and Routing, SQL Database Basics.
- 1Y : Object-Oriented Programming (OOP), Relational SQL Databases, noSQL Databases, Algorithmic Structures, Signal Processing, Probability & Statistics.

LANGUAGES

French	C2
English	C1 : IELTS 7, C2 : TOEIC 905
Spanish	B1