

Ouassil Dahimene

Data Analyst | Data Scientist

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Data Analyst/Scientist specialized in fraud detection with 4+ years of experience, primarily in the telecommunications sector. Expertise in large-scale data analysis, ETL pipeline automation, and development of anomaly detection ML models.

Technical Skills

- **Languages & Frameworks:** Python, SQL, Django/DRF, Bash/Shell, Odoo
- **Big Data & Databases:** Teradata, MySQL, PostgreSQL, PySpark, Hive, Pandas, DuckDB
- **Machine Learning:** Scikit-learn, XGBoost, Random Forest, Clustering, Classification, Anomaly Detection
- **ETL & Automation:** Apache Airflow, Python Pipelines, API/FTP Integration
- **Visualization & BI:** Power BI, Matplotlib, Plotly, Excel
- **DevOps & Cloud:** Git, Docker, AWS (S3, EC2), Linux

Professional Experience

Fraud Professional / Data Analyst

June 2022 – Present

Djezzy, Dar El Beïda

Telecommunications Operator in Algeria

Main tasks:

- Daily analysis and exploration of large datasets (voice, SMS, data, sales, etc.) to detect anomalies and fraudulent activities.
- Design and maintenance of ETL pipelines to integrate, clean, and structure data from various sources (Teradata, Hive, FTP).
- Development of machine learning models (classification, clustering) for anomaly detection and fraudulent behavior classification.
- Creation of automated dashboards and reports to monitor fraud and revenue assurance KPIs and visualize alerts.
- Development of business rules and automated controls using SQL and Python.
- Investigation of suspicious cases and preparation of incident reports to support decision-making.
- Close collaboration with security, network, DWH, IT, legal, and marketing teams for incident management, risk analysis, and implementation of corrective actions.

Key achievements:

- Full automation of the Revenue Assurance and Fraud dashboard (ETL, database, integration).
- Automation of fraud controls using Python/SQL scripts executed near real-time and D+1, enabling proactive anomaly detection and reducing financial losses.
- Development of machine learning classification models for SIMBox fraud detection (XGBoost / Random Forest + business rules).
- Development of clustering models (K-Means, DBSCAN) to detect fraud in SIM sales.

Backend Python/Odoo Developer

Nov 2021 – Mar 2022

SIG Service, Chéraga

IT Solutions Company

- Developed backend modules in Python/Odoo for patient, appointment, and consultation management.
- Integrated REST APIs for communication between medical modules and third-party services.
- Managed and optimized PostgreSQL databases.
- Authored technical documentation and provided user training support.

Python/Django Developer - Internship

Dec 2019 – May 2020

ELCS Research, Algiers

IT Solutions Company

- Developed Django web applications with REST APIs.
- Created test datasets to validate API behavior.
- Authored technical documentation and implemented unit tests to ensure functionality.

Python Developer - Internship

June 2018 – Sep 2018

APS (Algeria Press Service), Algiers

National Press Agency

- Developed an interactive data center network mapping tool using Python/NetworkX.
- Automated network device configuration (Cisco and Dell) through Python scripts.

Education

Master's Degree in Artificial Intelligence

2018 – 2020

USTHB, Algiers

Thesis: Development of a question-answering system using advanced NLP and deep learning techniques.

Bachelor's Degree in Mathematics and Computer Science

2015 – 2018

USTHB, Algiers

Thesis: Development of a sports information management platform using Laravel and MySQL.

Certifications & Training

- Apache Airflow DAG Authoring Certification (2025)
- Power BI - Data Analyst (IT Talents School)

Languages

- **French:** DALF C1
- **English:** C1 (Written), B1 (Spoken)
- **Arabic:** B1