

# DAHMANI SALAH

AI & Data Engineer ~ 3 years' of experience

Paris, France | (+33)699223823 | dahmani.salah@outlook.com | [LinkedIn](#) | [GitHub](#)

## EDUCATION

<b>Telecom SudParis / Université Paris Saclay</b>	2022 - 2023
<i>Master's Degree</i>	<i>Paris, France</i>
· MSc in Data Science and information systems	
<b>École Polytechnique</b>	2019 - 2022
<i>Engineering Degree (BAC+5)</i>	<i>Algiers, Algeria</i>
· Engineering degree in Applied Mathematics, Embedded Systems, and Artificial Intelligence	
<b>École Polytechnique</b>	2017 - 2019
<i>Classes Préparatoires aux Grandes Écoles (CPGE)</i>	<i>Algiers, Algeria</i>
· Intensive preparation in Mathematics, Physics, and Computer Science	
· Ranked in top 1% of students to join the engineering cycle	

## CAREER OBJECTIVE

Data & Cloud Engineer with ~ 3 years of experience, specialized in building and optimizing data platforms, implementing ML solutions, and driving cloud infrastructure modernization. Proven expertise in data engineering, analytics, and DevOps practices with a strong focus on delivering scalable solutions.

## TECHNICAL STRENGTHS

<b>Languages</b>	Python, SQL
<b>Cloud</b>	GCP (2 years of experience), AWS (Aws Glue, EMR, ECS, SNS, SQS, CloudWatch)
<b>Data Warehouses</b>	Snowflake, BigQuery, Redshift
<b>Databases</b>	PostgreSQL, MongoDB, NoSQL
<b>Data Ingestion</b>	Airbyte, DLThub, Fivetran, DataStream
<b>Data Transformation</b>	DBT, SQL, Pandas, Dataform, Spark
<b>Data Orchestration</b>	Airflow, Google Workflow
<b>Data Visualization</b>	PowerBI, Looker, Streamlit, Metabase
<b>Infrastructure</b>	Docker, Terraform, CloudFormation
<b>Version Control</b>	Git (GitHub Actions, GitLab CI/CD)

## WORK EXPERIENCE

<b>Modeo.ai</b>	October 2023 - Present
<i>Data Engineer</i>	<i>Paris, France</i>
· <b>Puma</b> (Tech Lead Data Engineer)	
· Developed marketing performance analysis solution using social media scraping (TikTok, Instagram)	
· Implemented serverless data ingestion using Airbyte and Python scripts orchestrated via Google Workflow	
· Applied ML/AI algorithms for image similarity (SSCD) and object detection (Yolo, GroundingDino)	
· Optimized algorithm performance through GPU utilization and batch processing	
· Designed data models connecting scraping results with similarity and object detection analyses	
· Set up infrastructure as code using Terraform and implemented CI/CD pipelines	
· <b>Heevi</b> (Data Engineer)	
· Created a Snowflake/DBT Data Platform for fleet management and real-time pricing calculations	
· Developed multi-layer data transformation pipelines with dimensional modeling in Snowflake	
· Set up data quality monitoring using Great Expectations and comprehensive testing	
· Architected serverless automation for customer billing:	
• Python API with FastAPI deployed on Cloud Run	

- Event-driven architecture with Google Pub/Sub
- Orchestration via Google Workflows and Cloud Scheduler
- **Kiplin** (Data Engineer)
- Established GCP-based Data Platform (Cloud Run, Workflows, BigQuery)
- Created data ingestion jobs using DLT and transformation pipelines with DBT
- Implemented infrastructure as code with Terraform and CI/CD on GitLab
- Provided technical guidance to business teams on platform usage
- **Mercateam** (Data Engineer)
- Modernized Data Platform reducing processing time from 1 hour to under 10 seconds
- Configured CDC between PostgreSQL and BigQuery using DataStream
- Migrated data transformations to DBT and formalized infrastructure with Terraform
- **Carac** (Data Engineer - Snowflake Trainer)
- Set up RBAC user and role management best practices on Snowflake
- Orchestrated DLTHub and DBT pipelines with Airflow
- Created reporting dashboards with Streamlit-Snowflake
- Implemented CI/CD workflows with GitHub Actions

## Crédit Agricole

March 2023 - September 2023

*Data Scientist intern*

*Paris, France*

- Led SMART Conso project to enhance marketing campaigns based on customer digital behavior
- Developed multimodal predictive models incorporating financial transactions and web tracking data
- Implemented data collection and processing pipelines for customer financial operations
- **Tech stack:** Python (TensorFlow, Streamlit), SQL, S3, GitLab CI/CD

## ACADEMIC ACHIEVEMENTS

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- Awarded Excellence Scholarship from Institut DataIA in collaboration with Telecom Paris and Paris Saclay University for Master's studies in Data Science
- Graduated with High Honors (17/20) from École Nationale Polytechnique d'Alger with Engineering degree
- Completed research internship at Sorbonne University, focusing on climate change prediction using Variational Autoencoders
- Successfully completed multiple internships in AI and Data Science, gaining hands-on experience in real-world applications

## PROJECTS

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### Personalized GenAI Assistant

Developed a personalized GenAI bot using AWS services (S3, Glue, Apache Iceberg) and RAG architecture to efficiently manage and search through personal documentation, implementing secure vector database for enhanced information retrieval.

## EXTRA-CURRICULAR

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**Head of Information and Technology Department** at Club d'Activités Polyvalentes (CAP) (January 2020 - January 2021)

- Led the IT department of the student organization, managing digital transformation initiatives
- Supervised a team of IT assistants and coordinated technology-related projects

**Charity Festival Organizer** at CAP (February 2019 - April 2019)

- Coordinated humanitarian aid initiatives and fundraising events
- Managed logistics and volunteer teams for community service projects

## INTERESTS

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Running+++, Tennis, Italian Cuisine, Hiking & Adventure