

# Mohammed Sghiouri

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## SUMMARY

**Artificial Intelligence and Computer Engineering Engineer** with expertise in Big Data, Machine Learning, and Data Analytics. Currently pursuing Master 2 in Big Data and AI while working as a **Data Engineer at Air France**. Skilled in developing data-driven solutions, building predictive models, and creating business intelligence dashboards. Available for full-time Big Data roles starting **December 2025**.

## WORK EXPERIENCE

**Data Engineer – Air France** **Sep 2024 - Nov 2025**

- Automated data workflows using Business Objects to create dynamic business intelligence dashboards on Power BI and Spotfire for better decision making
- Implemented KPIs to optimize operational resource planning processes
- Developed staff sizing models for short and mid-term forecasting, covering 800 commercial agents
- Built machine learning models to predict staffing needs, helping anticipate and optimize resource allocation
- Collaborated with business stakeholders to understand operational challenges and translate them into data-driven solutions

**Research Data Scientist – LIMOS - CNRS** **Mar 2024 - Aug 2024**

- Analyzed network datasets to detect abnormal patterns within a network
- Developed and deployed a machine learning-based intelligent intrusion detection system
- Performed a complete data science pipeline: data preprocessing, feature engineering, model training, and AWS production deployment

**AI Developer - Python – World Wide Progress** **Jun 2023 - Aug 2023**

- Automated CV analysis through an NLP model, replacing manual processing with a scalable intelligent solution

## PROJECTS

**E-commerce AI Agent** HETIC Paris

- Designed and deployed a proactive AI agent to reduce cart abandonment, increasing conversion rates through intelligent, personalized follow-up strategies

**PillPal - Intelligent Medical Robot** ENSAM

- Led development of an IoT-based intelligent medication dispensing robot, integrating sensors and automation for enhanced healthcare delivery

## SKILLS

<b>Data Tools</b>	Power BI, Spark, Tableau, SQL/NoSQL, Spotfire
<b>Programming</b>	Python, SQL, R, Java
<b>Machine Learning</b>	TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, Neural Networks, AI-Agents, LLM API
<b>Cloud &amp; DevOps</b>	Terraform, CI/CD, Azure, Kubernetes, AWS, GCP, Git, Linux/PowerShell, Docker, Airflow
<b>Methodologies</b>	Agile, Scrum, Kanban, MLOps
<b>Soft Skills</b>	Teamwork, Communication, Autonomy, Initiative, Adaptability, Creativity, Ambitious

## EDUCATION

2024 - 2025	<b>HETIC Paris - Air France</b> - Master 2 in Big Data and Artificial Intelligence (Apprenticeship)
2023 - 2024	<b>ISIMA</b> - International DD-M2 of Computer Science - Data Science
2019 - 2024	<b>ENSAM</b> - State Engineering Degree in Artificial Intelligence and Computer Engineering

## LANGUAGES

<b>English</b>	TOEIC 880	<b>Arabic</b>	Bilingual
<b>French</b>	Bilingual	<b>Spanish</b>	Beginner

## INTERESTS

Volleyball, Tennis, Piano, Music Theory, Travelling