

WISSAM DRAOU

Data Scientist / Machine Learning Engineer

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EXPÉRIENCE

Data Scientist

Urssaf Caisse nationale

09/2024 - 09/2025 Montreuil, France

- Designed a time series model to forecast regional production with an **average accuracy of 95%**.
- Developed an NLP model automating semantic search between audit objectives and report contents, **reducing a one-week task to 4 min.**
- Created and automated Python dashboards, **reducing weekly reporting time from 2 hours to 46 sec.**
- Led a Python/AI user club within the department: presented best development practices, shared reusable scripts, and supported teams in upskilling on these tools for their projects.
- Technical environment :** Python (pandas, polars, NumPy, scikit-learn, statsmodels, spacy, NLTK, Sentence Transformer), R (fable, forecast, dplyr, tidyr), Jupyter, RStudio, Power BI, GitHub, Docker.

Data Analyst

Air France

09/2023 - 09/2024 Roissy en France, France

- Developed an unsupervised Machine Learning model to select cabin crew: standardized scoring, ensured consistent evaluation, achieved **95% manager satisfaction, and reduced a one-week process to 3 min.**
- Implemented Power BI dashboards to visualize performance and support decision-making..
- Created and automated SQL queries.
- Technical environment :** Python (pandas, polars, scikit-learn, prince), SAP BO, Power BI.

Statistical Research Officer

Urssaf ile de france

09/2022 - 09/2023 Dammaries les Lys, France

- Developed a decision tree MACHine Learning model identifying three profiles of repeat contributors, **achieving 94% accuracy**. This enabled proactive targeted actions, **reducing recurring requests handled by managers by 22%**.
- Implemented and automated dashboards.
- Created and automated SQL queries.
- Conducted data exploration and preparation (data cleaning and feature engineering).
- Technical environment :** Python (pandas, NumPy, scikit-learn), SQL, Cognos Analytics, Power BI, Jupyter, Excel.

FORMATION



Master's Degree in Machine Learning for Data Science

Université Paris Cité (University of Paris Cité)

10/2023 - 09/2025 Paris, France



Bachelor's Degree in Data Mining

Université Paris Cité (University of Paris Cité)

09/2022 - 09/2023 Paris, France



University Diploma of Technology in Computer Science

Université Paris Cité (University of Paris Cité)

09/2019 - 09/2021 Paris, France

PROFIL PROFESSIONNEL

Innovative, business-oriented Data Scientist with expertise in NLP and forecasting. I have developed reliable solutions that drastically reduce processing time and facilitate decision-making. With a deep understanding of user needs and strong cross-functional collaboration, I contribute to deploying data-driven solutions that deliver measurable value.

SKILLS

Technical Stack

Python	FastAPI	Pandas	NumPy	
Transformers	NLTK/spaCy			
TensorFlow	Sklearn	PyTorch	R	
SQL	Git	Linux	Docker	Power BI

Data Science

Machine Learning	NLP	Deep Learning
Computer vision	Time Series	

Computing

Data Engineering	Pipelines
Data Preparation	Automation
Data Analysis	Data visualization

Cross-Functional

Project Management (from scoping to deployment)
Presenting studies to business teams

Keeping up with Data technologies
Presenting studies to business teams

LANGUAGES

English

B2

PASSIONS

Wrestling
Travel

Travel