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

LANGUES

Anglais   B2

PASSIONS

🤼 Wrestling

✈️ Travel