



Gueulette Arnaud

Data Engineer | Data Scientist | Machine Learning Engineer

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Professional Summary

Data Consultant with 2 years of experience in planning, designing, building, testing, and deploying data systems, data pipelines, and machine learning models. Skilled in Python, SQL, Azure-AWS, and Docker. Proven ability to translate business needs into technical solutions, with expertise in developing some of them end-to-end.

Technical Skills

- **Languages**
Python, (T-)SQL, Java, Bash, HTML, CSS
- **Stack Tools**
Git, Pyenv, Poetry, Pandas-PySpark, PyTest - Pydantic, Optuna, Airflow-Mage, MLflow, DVC, Docker, Flask-Streamlit
- **Data Systems**
SQLite, MySQL, Microsoft SQL Server, PostgreSQL, ElasticSearch, MongoDB
- **Specialized Libraries & Frameworks**
Scikit-learn, SciPy, Statsmodels, PyTorch, Tensorflow, Keras, (Py)Spark, Psycopg2, SQLAlchemy, SparkMLib, Langchain, ...
- **Cloud Technologies**
 - **AWS** - S3, EC2, RDS, Kinesis, Glue (Crawler), Athena, Lambda
 - **Azure** - Data Lake Storage, Virtual Machine, Data Factory, ML Studio
 - **GCP** - Cloud Storage, Compute Engine, BigQuery
 - **Cloudera** - Machine Learning
- **Data Visualization Tools**
Power BI, Kibana, Grafana
- **Other Knowledges**
Terraform, Apache Kafka, Apache JMeter, Debezium, Power Automate, SAS, R, Excel, Power Query

Soft Skills

- **Languages:** French (C2), English (C1), Dutch (B1)
- **Effective Communication**
- **Teamwork and Collaboration**
- **Business-Driven**
- **Critical Thinking**
- **Problem-Solving**
- **Continuous Learning**
- **Curiosity**
- **Creativity**

Professional Experience

Data Consultant, Sopra Steria Benelux

Sept 2022 - Present

- **EUROCONTROL (External Client)**
 - Planned, designed, developed, and deployed a multi-step forecasting model to assist traffic operators in determining the optimal number of arrivals and departures (flights) per hour in a given airspace, considering weather conditions. This model reduced the time operators spent on manual decision-making, allowing them to focus on more valuable operational tasks.
- **SOPRA STERIA (Internal Client)**
 - Researched and documented best practices for utilizing AI-powered solutions to support developers in their daily coding tasks throughout the software development lifecycle (SDLC) e.g. *tools, prompt engineering, privacy risks, ...*
 - Analyzed, measured, and assessed the feasibility of integrating an Elasticsearch search engine into an existing data system. The goal was to enhance the query capabilities and performance of the system through this integration.
 - Developed an end-to-end data pipeline to ingest energy consumption invoices (raw format: PDF), clean, process, and integrate them into the (SAS) IBM Envizi ESG Suite Platform. Delivered high-value insights and reports, significantly improving internal decision-making.
 - Created a proof-of-concept (POC) end-to-end data system to ingest energy consumption invoices (raw format: PDF), clean, and process the data to provide key performance indicators (KPIs) related to energy usage and costs. Delivered actionable insights and reports, enhancing internal decision-making.

Education

Master's Degree in Data Science

Option Statistics - GPA 3.0

Université Catholique de Louvain, 2020 - 2023

Thesis - [Time Series Forecasting: Comparison of Box-Jenkins, Machine Learning, Deep Learning, and Hybrid Methods](#)

Bachelor's Degree in Business Engineering

Option Computer Science and Operational Research - GPA 3.0

Université Catholique de Louvain, 2017 - 2020

Certifications

- AZ-900: Microsoft Azure Fundamentals
- DP-900: Microsoft Azure Data Fundamentals
- AI-900: Microsoft Azure AI Fundamentals

Other Achievements

[EU Defence Innovation Scheme \(EUDIS\) - Hackaton](#)

Team EUnify - 1st (Belgium) - 3rd (Europe)