

### Profile

As a Machine Learning Engineer, I apply my skills in data engineering, analytics, and prediction to help clients unlock the hidden potential in their data. I have experience in various sectors, including finance, law, and energy, and I am passionate about finding innovative solutions to complex problems.

### Professional Experience

June 2023 – **Machine Learning Engineer**, *GRTGaz*

- Present
  - Gas Propagation Prediction Tool: Engineered Python models for predicting gas dynamics in pipelines using time series data using AWS environment. Chatbot Development for Documentation Querying:
  - Led the project management for a chatbot that interfaces with Confluence to retrieve documentation, focusing on operational efficiency and team coordination. Support and Maintenance for Predictive Analytics Tools:
  - Proactively monitored and maintained performance of prediction tools, supported data scientists with training and debugging.

Sep 2022 – **Machine Learning Engineer**, *DevoTeam Revolve - LexisNexis*

- June 2023
  - Implemented of an MLOPS platform, enhancing operational efficiency.
  - Conducted Python Code Refactoring, improving code readability and maintainability.
  - Designed CICD Pipeline using Gitlab and MLOPS Pipeline using ZenML, DVC, and MLflow.
  - Leveraged Terraform & AWS for AWS SageMaker, enabling scalable machine learning models.

Jul 2021 – **Data Engineer**, *CGI - Generali*

- Jul 2022
  - Implemented an AML/CTF fraud detection system, enhancing security and compliance.
  - Managed data loading and preparation using Pyspark/Hadoop, improving data quality.
  - Detected internal and external frauds, created alerts, providing critical insights to financial agents.
  - Automated various data flows using Python, interacted with the Neo4j graph database via CypherQL, enhancing data management efficiency.

Mar 2021 – **Data Scientist**, *CGI - BPI France, AG2R La Mondiale*

- Jun 2021
  - Conducted data exploration and high-value theme analysis, generating actionable insights.
  - Developed ML/DL models to detect and extract handwritten and typewritten information, enhancing data processing capabilities.
  - Optimized Machine Learning model prediction results through hyper-parameter tuning, improving model performance.
  - Performed text data similarity analysis, boosting data matching accuracy.

Apr 2019 – **Data Scientist**, *CGI - DGFIP*

- Nov 2020
  - Web scraping with Selenium.
  - Web development with Flask.
  - Natural Language Processing (NLP): topic modeling, chat bot, word embeddings (nltk, word2vec, lda, spacy, gensim etc)

### Education / Certifications

Engineering Degree in Ecole Centrale Lyon

AWS Cloud Practitioner Certificate

Google TensorFlow Developer Certificate

AWS Solutions Architect Associate Certificate

DCA Docker Certified Associate

AWS Machine Learning Specialty Certificate

### Technical Skills

Machine Learning Supervised and Unsupervised Machine Learning (SVM, XgBoost, Random Forest, K-means), Deep Learning (CNN, RNN, YOLO, Mask R-CNN, Transformers, BERT)

Data Engineering Proficient in Data Processing (PySpark, Numpy, Pandas, NLTK, Spacy, BeautifulSoup, Tesseract) and Data Engineering (ETL, Hadoop, Spark)

Data Visualization Experienced in Data Visualization (Matplotlib, Seaborn, Bokeh, NMF, WordCloud, Gensim, PyLDA, MLflow)

MLOps Experienced in Version Control (GitLab, DVC) and MLOps (ZenML, MLflow, DVC)

### Languages

English Fluent - TOEFL (103/120), TOEIC (920/990)

### Publications

Authored ML focused articles, garnering over 10,000 reads on Medium