

Émilien FOISSOTTE

Senior Machine Learning & Data Engineer

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English – Fluent | French – Native



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MY PROFILE AND STRENGTHS

With over 5+ years of experience in tech and various industry leaders, I am a Python software engineer specialized in Data Engineering and Machine Learning (ML). I build, design, monitor and troubleshoot Data Pipelines and ML stacks to maximize impact of data through Digital Products. My main driver is to empower products and people collectively through data!

EXPERIENCE

Since 07/23 : Data & Machine Learning Engineer

Devoteam A Cloud – AWS Partner & Consulting firm focused on GenAI, ML and Data

- Data : Big Data Pipelines and Modern Data Stack Lakehouse – 50+ data pipelines maintenance exposing 5B records in the LakeHouse (AWS, dbt, EMR, PySpark, Airflow).
Impact: Delivery cycle frequency increased by 50 %
- GenAI : Development of a production publishing, testing pipeline to expose LLM on the AWS Marketplace. Development of LLM based application to assist Data Engineer in migration tasks. (SageMaker, Gitlab, AWS Bedrock)
Impact : Time to market reduced from days to minutes
- API Design : Maintenance of a Serverless Data API for +50k external users, e-commerce main website for a world leading gas supplier (AWS Lambda, AWS RDS Postgres, Pyspark)
Impact: 100% of Data Lineage for API, leading to 60% savings in incident response time
- Leadership: Technical interviews of candidates for AI/ML consulting positions, animation of workshops on client side, [blog notes](#) hosted on Devoteam A Cloud blog

01/2021 – 06/23 : Machine Learning Engineer

SITA/SafetyLine – The SaaS to reduce aircraft carbon footprint

- Management: Onboarding and mentoring of interns, apprentices and onboarded data scientist and data engineers
Impact: Apprenticeship results led to the design of new event-driven data processing platform
- Data: Led the Data processing and model training stack (Gitlab, Python, Pandas, Docker)
Impact: 80% time saved on troubleshooting during model trainings.
- MLOps: Monitoring stack and packaging of ML models in production and during R&D Process (Python, Elasticsearch, Kibana, MLFlow)
Impact: Monitoring of 100% of models, resulting to high customer retention and trust.
- Near Realtime processing technological stack for airport optimization path on a Fullstack application (Python, Redis, Dash, KeplerGL, OpenCV)
Impact: Generated 80% of YTD revenue for airport products.

06/2020 – 12/2020 : Data Scientist Intern

Safran – World leading supplier of Aircraft engines

- Data Science: Development of a POC for Predictive Maintenance of aircraft engine with a WebApp fueled by ML models (Flask, Sqlite, Plotly)
- Data: Extraction of 1000+ of data features of Engines maintenance lifecycles with an ETL pipeline (OCR, Pandas, ETL Python)
- Analyst: Data Analysis (EDA) in collaboration with technicals experts (ACP, Scikit-learn, Jupyter)
Impact: Presented internship results to [SMAI](#) at Safran & lab scale validation of POC

12/2017 – 06/2019 : President and Project Manager

ENSMA Junior Etudes – Student « Junior Entreprise »

- Leadership: Training of new students to Junior Etudes company guidelines
- Project Management: Responsible of 4 students for 2 projects of aerodynamics and mechanical of an ultralight aircraft
Impact: Labeled JE within 2 years thanks to revenue generated and +50% of onboarded students

PROJECTS

2024 : [Carbuoram](#) – OpenData end 2 end fullstack [application](#)

2023 : [Blogging](#) about tech topics (~100 views/month)

2020 : 4th place of [SAFRAN Student Contest](#), « Black-Out Challenge » (1000+ participants)

EDUCATION

2020 : Engineer Degree of E.N.S.M.A (French Engineering School of Aeronautic), specialized in Computer Science and Embedded Systems.

2020 : Master's in Big Data, Double curriculum in partnership with Poitiers University.

CERTIFICATIONS

2023 : AWS Solution Architect Associate

