ARNAUD GUIBBERT ML Engineer 🇫🇷 🇬🇧

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ABOUT ME

Efficient and autonomous, I am a ML Engineer with over 2+ years experience in developing deep learning models and building end to end ML/Data Pipelines. Over the past two years, I have contributed to 4+ projects, three of which have been successfully deployed in production at Moonpig & Swisscom, serving over 15k+ employees.

SKILLS

Languages: Python(PyTorch, Pandas, Scikit-Learn, Hugging Face, FastAPI, NetworkX, Streamlit), SQL, C++.

Technologies: Terraform, AWS(Sagemaker), Docker, Kubernetes, Helm, Git/Github-Actions, AirFlow, Snowflake, MySQL, MongoDB.

EXPERIENCE

02/2025 – now **MLOps Engineer** — **Moonpig, London**

- Supporting the Data Science team in the automation of ML workflows and deployment pipelines, with a strong focus on scalable MLOps architecture on AWS.
- Contributed to a real-time inference API for ML models using SageMaker endpoints. ***Achieved ultra-low latency (200 ms), high availability, and horizontal scalability.***
- Built automated tools for detecting and deleting unused SageMaker endpoints and pipelines. ***Reduced AWS Sagemaker costs by 30%.***

06/2023 – 10/2024 **Machine Learning Engineer** — **Swisscom, Switzerland**

- Internal consulting in a team that designs and develops innovative ML and Data-related solutions. ***Leading projects through stakeholders management.***
- Developed and deployed in production a multimodal deep learning model to route IT tickets to the correct department and predict failure risks. ***Reduced ticket routing time by a factor of 60 and decreased the failure rate. Currently processing over 10,000 tickets weekly.***
- Developed a deep learning time series forecasting model to predict daily fluctuations in banking payments volume. ***Improved forecast accuracy by 60% on average.***
- Developed and deployed an intelligent AI assistant with a RAG bot backend to assist operators in resolving banking incidents. ***Reduced average incident resolution time by a factor of 3.***

09/2022 – 05/2023 **Research Data Scientist** — **Swisscom, Switzerland**

- Internal research consulting team that performs ML research
- Led a research project to compress large knowlegde graphs using geometric deep-learning. ***Compressing large knowledge graphs with a factor of 300.***

07/2021 – 01/2022 **Internship - Optimization and Operations research** — **Procsim, Switzerland**

- External consulting in a team that designs metaheuristic algorithms and simulation models.
- Developed meta-heuristics algorithms to optimize operating room schedules in hospital settings.
- Developed and deployed simulation models and optimization algorithms to streamline a tyre and a food supply chains. ***Increased the production rate by a factor of 4.***

EDUCATION

09/2020 - 04/2023 **Data Science / Microengineering - Master's degree at EPFL** — **Lausanne, Switzerland**
Award of the highest GPA (5.78/6) of the Microengineering/Data Science department. Key classes: *Stochastic Processes, Advanced & Applied Machine Learning, Deep Learning, Model Predictive Control, Laser Fundamentals, Computer Vision, Applied Data Analysis, Graph Theory.*

09/2018 - 04/2023 **Bachelor's & Master's degree of Science at CentraleSupélec / Paris-Saclay University** — **Paris, France**
CentraleSupélec/EPFL Double degree, **GPA: 4.21/4.33**. Key classes: *Statistics - Advanced Probability - Quantum and statistical physics - Fluid mechanics - Automation - Electronic systems - Electromagnetism - Optimization*

09/2016 - 08/2018 **Preparatory class for the 'grandes écoles' at Lycée du Parc** — **Lyon, France**
Intensive training in Mathematics, Physics, Automation & Mechanical engineering.

PROJECTS

02/2022 - 07/2022 **Neural Architecture Search in complex field for audio recognition** — **EPFL, ML Research**
Developed advanced NAS methods with pairwise operations in the complex field to enhance audio recognition performances. ***Laboratory for Information and Inference Systems - Volkan Cevher***