

ARNAUD GUIBBERT

ML Engineer  



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London



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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
- Streamlining the Data Science team workflows with the automation of ML jobs 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 knowledge 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**