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⭘ alexandergirardet

Certifications

- Google Professional Data Engineer
- Google Associate Cloud Engineer

Skills

- Python
- BigQuery
- Docker
- SQL / NoSQL
- Scrapy
- Langchain
- PyTorch
- Git
- Looker
- Java
- dbt
- Kafka
- Airflow
- Vertex AI
- GitHub actions
- Time Series Analysis
- NLP Analysis
- Apache Dataflow

Languages

English

French

Education

M.A. Finance and Business
University of Edinburgh

- 📅 Sep 2018 - May 2022
- 📍 Edinburgh, UK
- 🎓 2:1
- 📖 Mathematical Programming in Advanced Analytics

Data Science Bootcamp
Le Wagon

- 📅 Sep 2020 - Dec 2020
- 📍 London, UK

International Baccalaureate
Intenational School of Geneva

- 📅 Sep 2013 - May 2018
- 📍 Geneva, Switzerland
- 🎓 37/45

Alexander Girardet

Data Engineer

Work Experience

Data Engineer
LiveScore Group

📍 **London, United Kingdom**   📅 **May 2022-Present**

- Designed and implemented a low-latency (<2s) data processing platform., integrating Dataflow and Apache Kafka clusters, with an Automated quality testing, and monitoring suite.
- Implemented internal RAG system, with Langchain, Open Source Hosted LLM for inference.
- Crafted and maintained a systematic deployment pipeline using GitHub Actions, enabling streamlined and automated updates to production systems.
- Initiated and managed the incorporation of DBT into our data warehousing infrastructure, significantly improving the testability and reproducibility of our data marts.

Data Engineer (Paid Apprentice)
Richemont Group

Geneva, Switzerland   📅 **Nov 2022 - May 2022**

- Used DBT, Airflow and Looker to develop live monitoring dashboards that visually reflected cost inefficiencies in BigQuery jobs. Overseeing the processing of up to 1PB of data per day. Led to 30% BigQuery cost savings, through table clustering, partitioning and code optimisations
- Creating meaningful KPIs for C-suite personnel in analysing the cost efficiency of BigQuery usage across all subsidiaries
- Performed NLP analysis on commonly used production queries to detect Anti-SQL practices

Quantitative Investment Analyst
Nexus Equities

📍 **New York, USA**   📅 **Aug 2022 - Dec 2022**

- Developed a proprietary IOS database by developing a CNN model with aerial imagery, and productionized the model with airflow
- Created batch processing pipelines ingesting data from multiple sources to BigQuery.
- Extracted and validated data using Scrapy and Pydantic. Productionized pipeline using Docker, GitHub Actions and GCP VM

Projects

Quantitative Real Estate Pricing System

- Developed a predictive UK rental pricing bot using geo, image and text data, achieving an RMSE of 3500 on yearly rental prices
- Utilized transfer learning for image models with PyTorch that determined the indoor and outdoor visual condition of properties
- Created a end to end Data extraction, feature engineering and model inference system built with monitoring and MLOps standards.

Reddit Sentiment Analysis Trading Bot

- Quantitative Finance Thesis performing NLP analysis in determining the impact of Reddit sentiment on next day price movements of stocks
- Extracted, validated and pre-processed 650,000 Reddit posts over a one-year time frame using scrapy
- Utilized SVMs, and the NLTK sentiment library, to extract average sentiment across daily stock mentions and regress on next day movement