Martynas Janonis

London

Right to work: EU & UK

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Work Experience

Quantcast
• Sr. Machine Learning Engineer

Machine Learning Engineer

London, UK

Spring 2023 - Present Summer 2021 - Spring 2023

- Lead a contextual insights and targeting solution Ara TopicMap, involving writing, optimising and debugging Spark queries to process massive amounts of unstructured data from the Internet and applying machine learning techniques using Spark MLlib, PyTorch and scikit-learn.
- Optimized Spark pipelines and GPU-accelerated LLM inference, delivering six-figure annual cloud savings.
- Built a robust moderation system on an accelerated timeline to mitigate regulatory risk; partnered closely with non-engineering stakeholders (Legal & Privacy).
- Designed and implemented a capacity-constrained, semi-streaming clustering algorithm for webpage embeddings, alongside parsing/embedding generation upgrades; built a custom labelled evaluation dataset to guide model and algorithm selection, delivering double-digit gains in clustering quality.
- Developed an internal Python library to load datasets by date range via a simple, consistent API.
- Spearheaded the creation of an internal Python style guide, improving code consistency and maintainability.
- Team's go-to engineer for Spark and Python; mentored 3 new MLEs through onboarding, resolved complex performance and debugging issues across the team, improving pipeline reliability and delivery speed.

R&R Technology

Vilnius, Lithuania

Software Engineer

Spring 2021 - Summer 2021

- Developed software for an autonomous hospital disinfection robot using ROS and C++.
- Set-up the robot's embedded x86 computer by installing and configuring Linux, peripheral drivers and compiling proprietary libraries.
- Worked on adding real-time rigid object pose estimation capabilities using a depth sensing camera (Intel RealSense) by processing 3D point clouds and generating Viewpoint Feature Histogram descriptors using ROS, PCL and C++.

Education

University College London

London, UK

BSc Computer Science — First Class Honours

Sep 2017 - Aug 2020

- BSc Thesis: Anomaly detection in parcel X-rays using Siamese and triplet neural networks

Skills

Languages: Python, SQL, Bash, Emacs Lisp, C++.

Software: Spark, Unix, Git, MLFlow, Airflow, Poetry, Grafana, LATEX.

Libraries: PyTorch, PySpark, pytest, NumPy, scikit-learn, Pandas, Pydantic, FastAPI.