

ACHILLEAS ATHANASIOU FRAGKOULIS

Senior Machine Learning Engineer

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📍 London, UK

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🐙 github.com/achilleasatha

EXPERIENCE

^ Satalia (WPP) Senior Machine Learning Engineer (Platform)

📅 Apr 2024 – Ongoing

📍 Remote, UK

- Productioned **GenAI** research lab PoCs (ImageGen, LLM and multimodal), predominantly working on a **fastAPI** & **LiteLLM** stack, deployed on **k8s** clusters with highly parallelized workloads across **GPUs**
- Extensively worked on **agentic** process automation and **AI-assisted** workflows, managing the lifecycle of projects from architecture, to PoC, to productionization and greenfield development. Multimodal and multi-agent systems, **RAG**, embeddings & vector search.
- **Technical lead** on MLOps, setting best practices with educational workshops, day-to-day coaching of team members, publishing technical guidance, standardization via templates, and reusable internal libraries
- Created re-usable templates for **CI/CD pipelines** (automated testing, deployments, evaluations with synthetic data) and a custom logger package with metrics tracker & tracer based on OpenTelemetry to unify logging, monitoring and observability across the app estate

FLYR **FLYR Hospitality** Senior Machine Learning Engineer

📅 Dec 2022 – Feb 2024

📍 Remote, UK

- Developed & maintained forecasting models in production. Doubled the **forecast horizon**, ingested **exogenous features** from 3rd party data sources
- Responsible for **monitoring** - **Elastic** & **Kibana** model output, drift, data quality, KPIs and addressing triage tickets from >1,000 customers
- **Productionized** a cancellations model - through experimentation with various architectures - **XGB**, **GARCH**, **Time Series Transformers** and framings
- Separated forecasting model from a monorepo and monolithic app to micro-services (**gRPC**), CI/CD with **GitHub Actions**, translated models to **sktime**
- Automated backtesting pipelines on **GCP** with spot VMs

BEAT **Beat** Senior Machine Learning Engineer

📅 Sep 2021 – Dec 2022

📍 Remote, UK

- Designed & built a flexible & scalable experimentation platform. **Leading** a data team of 4 (2xDEs, DS, DA) and owning the **data product**
- Developed solutions for automated analysis pipelines for A/B/n, **switchback experiments** & **hold-outs** (supporting 100s metrics w. cuts - OLAP cube)

rimoz **Rimo3** Machine Learning Engineer

📅 Mar 2020 – Aug 2021

📍 Remote, UK

- Prototyped a **computer vision** - **ResNet50** based solution for automated software testing, deployed as a side-car micro-service (FastAPI) for a CLI tool
- Used tree-traversal, **object detection & recognition** to emulate user flows

Expedia Group - **Hotels.com** Data Scientist

📅 Jul 2018 – Mar 2020

📍 London, UK

- Collaborated with cross-domain ML teams to design, set up & analyse experiments (image classification & scoring, typeahead, and sort & rank)
- **Time-series** analysis and simulations of Thompson Sampling (Bayesian) **Multi-Armed Bandit** to assess impact of seasonal patterns on convergence. Designed a transformer to detrend signals and correct non-stationarity
- Implemented **Bayesian A/B test** methods (informed priors, weighted likelihood, ROPE) resulting in reduced test duration and increased interpretability

EDUCATION

University College London (UCL)

MSc Business Analytics

📅 Sep 2017 – Sep 2018

- **Social network analysis & community detection** to explore factors driving behavioural change in weight loss interventions using wearables
- Developed a **predictive model** for artist success to curate new artists for promotion on highly performing Spotify playlists (PCA, XGBoost & SVMs)

Imperial College London & CERN

Experimental Particle Physics Researcher

📅 Oct 2013 – Sep 2014

- Developed an automated **multivariate analysis** framework in C++ for tuning a binary classifier to accept/reject signal/noise events
- Explored **Linear Discriminant Analysis** and **Boosted Decision Trees** approaches to identify important predictors leading to ~8-12% signal efficiency gains

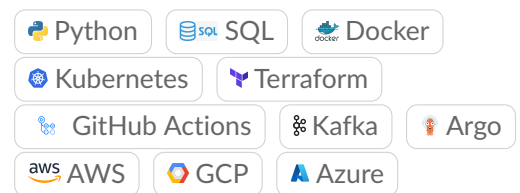
Queen Mary University of London

BSc Physics (Honours)

📅 Sep 2010 – Jul 2013

- Optimised a χ^2 function for model fitting with extraction of probability density functions

TECH STACK



PUBLICATIONS

JOURNALS

Arnold, T.et al.2014. Structure of normal-alkanes adsorbed on hexagonal-boron. J. Phys. Chem.

CERTIFICATIONS & AWARDS

Scrum Alliance
Scrum Product Owner

Guinness World Record Holder
Virgin Kitesurfing Armada 2016 UK

Int. Kiteboarding Organization
Kitesurfing Instructor Level 1