

ACHILLEAS ATHANASIOU FRAGKOULIS

Machine Learning Engineer

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📍 London, UK

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🐙 github.com/achilleasatha

EXPERIENCE

FLYR Senior Machine Learning Engineer

📅 Dec 2022 – Ongoing

📍 London, UK

- Contributed towards development & maintenance of forecasting models in production. Doubled the **forecast horizon**, ingested **exogenous features**
- 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**

BEAT Senior Data Scientist

📅 Sep 2021 – Dec 2022

📍 London, 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)
- Producers and consumers of events. **Kafka** for relaying BE events to the data stack and for publishing back post-pipeline processing (**Spark & PySpark**)
- Implemented CI/CD **GitHub Actions** and monitoring (**Prometheus, Grafana**)
- Direct management and coaching to team members for development

Rimoz Machine Learning Engineer

📅 Mar 2020 – Aug 2021

📍 London, UK

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

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)
- Contributed to dev of multi-armed bandits (**Flink** stream processing)
- **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
- Packaged **experimentation analysis platform** as a web-app for ease of use

UCL & Future Skills Training (NGO) Lead Data Scientist (Volunteering)

📅 Jan 2020 – Mar 2020

📍 London, UK

- Project lead, managing team of 5 graduate students on a charity data project
- Deployed **NLP sentiment classifier** with **thematic identification & clustering**

Satalia

📅 May 2018 – August 2018

📍 London, UK

- Performed run-time optimisations for A* search methods with heuristic development for a **multi-stage stochastic optimisation** pricing agent

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, XG-Boost & 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

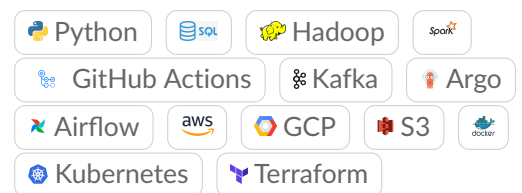
Queen Mary University of London

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