

ACHILLEAS ATHANASIOU FRAGKOULIS

Data Science, Experimentation & Machine Learning Engineering

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EXPERIENCE

Senior Data Scientist

 **Rimo3**

📅 Mar 2020 – Ongoing

📍 London, UK

- Prototyping solutions for end-to-end automated software packaging & QA
- Developed an **LSTM** based classifier to identify sequences of events in low-level Windows API calls and application logs that lead to errors
- Built **computer vision** infrastructure (classification, de-duplication of images, **object detection** and identification of multiple classes pertinent to the domain, leveraging **transfer** and **few-shot learning**)
- Experimenting with a deep learning agent that utilizes imitation learning and **reinforcement learning** to automate QA and UAT sequences

Data Scientist

 **Expedia Group** -  **Hotels.com**

📅 Jul 2018 – Mar 2020

📍 London, UK

- Discovery and insight generation that led to hypothesizing, setting-up & analysing >100 A/B and multivariate experiments driving ~\$94M GP
- **Time-series** analysis and simulations of Thompson Sampling (Bayesian) **Multi-Armed Bandit** agent, to determine impact of seasonal patterns on convergence. Created a transformer to de-trendise signal, correcting non-stationarity
- Research and implementation of **Bayesian A/B testing** methods (informed priors, stopping rules, weighted likelihood, ROPE) reducing test duration
- Packaged (Docker) and deployed (Helm, Kubernetes) **experimentation platform** on the cloud, to democratise access, saving hundreds of analyst-hours
- Advocated for **multi-objective optimisation** and prototyped the framework

Lead Data Scientist

UCL & Future Skills Training (NGO)

📅 Jan 2020 – Mar 2020

📍 London, UK

- Project lead in UCL Analytics for Social Impact Society, managing a team of 5 graduate students helping a charity extract value from conversational data
- Designed and deployed an **NLP based sentiment classifier** with **thematic identification & clustering** (Flask API, hosted containerized on AWS)

 **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

Chief Operating Officer

 **Ormos Foods**

📅 Dec 2014 – Sep 2017

📍 London, UK

- Hacked growth in a neonatal company, managing a growing team (from 3 to 20 strong) responsible for design, marketing and sales of >500 products

Experimental Particle Physics

Imperial College London & CERN

📅 Oct 2013 – Sep 2014

- Developed in C++ an automated **multivariate analysis** framework for tuning a binary classifier that accepts/rejects signal/noise events
- Explored an **LDA** and **BDT** approach to identify important predictors leading to ~8-12% signal efficiency gains

EDUCATION

MSc Business Analytics

University College London (UCL)

📅 Sep 2017 – Sep 2018

- **Social network analysis, community detection** and NLP based sentiment classification to explore factors driving behavioural change in weight loss interventions using wearables
- Developed a **predictive model** for an artist's success aimed at curating new artists to promote on highly performing Spotify playlists (PCA, XGBoost & SVMs)

BSc Psychology (Honours)

The Open University

📅 Apr 2011 – May 2017

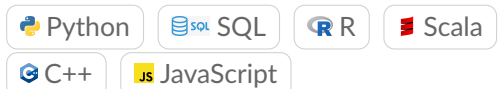
BSc Physics (Honours)

Queen Mary University of London

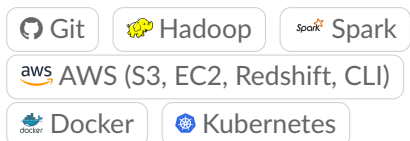
📅 Sep 2010 – Jul 2013

- Model fitting through extraction of probability density functions by optimising a χ^2 function using least squares approach

PROGRAMMING




TOOLS & TECH



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