Benjamin Jones

Machine Learning Specialist

CONTACT

Location: **London**
LinkedIn:// **benthomasjones**
Github:// **btjones-me**

CAPABILITIES

•**Python** 3.7/3.8 (numpy, pandas, DVC, CML, dask, scikit-learn, keras, lime/SHAP, spaCy, networkx, matplotlib) •**ML Engineering** and MLOps (CI/CD for ML, scalable deployment, GitHub Actions, Azure Pipelines, CML, application architecture) •**Git** •**UNIX** •**Bash Scripting** •**R** (plyr, dplyr, RODBC, caret, randomforest) •**Computer Vision** (object detection, segmentation, labelling, YOLO_v4, InceptionNet) •**SQL** (MySQL, SQLite) •**NLP** (word embeddings, similarity, sentiment, topic modelling, LDA) •**Recommender Systems** (collab/content filtering, lightFM) •**Azure** certified •**AWS** •**UI/UX design** •**NoSQL** (mongoDB) •**Qliksense** •**Docker** •**PyCharm**

QUALIFICATIONS & AWARDS

OxML Summer School
University of Oxford | 2021

Azure Data Science Associate DP100
Microsoft | 2019

Professional SCRUM Master PM1
scrum.org | 2019

Amazon ACN Deepracer Competition - 1st Place UK
Amazon Web Services | 2019

INTERESTS

Snowsports - skiing/ snowboarding

Tennis - local league

Chess - 1296 chess.com ELO

EXPERIENCE

UK HYDROGRAPHIC OFFICE | Machine Learning Specialist (Contract)

London (remote), UK   Jan 2021 - August 2021

Machine Learning Specialist focussed on productionising ML products for commercial and navy sea vessels.

• Personally responsible for end-to-end ML SaaS MLOps using deep learning CNNs to denoise multibeam echosound surveys of underwater topography.
• Responsible for ML application architecture, production training and inference pipelines. Also act as technical advisor for data science direction. Team of 4.
• Tech stack: Tensorflow, Poetry, Dask, GitHub Actions, DVC, CML, AWS EC2, Fargate, S3.

MOTTLI APP TECHNOLOGIES LTD | Head of Data & AI

London, UK   Dec 2020 - Present

Heading up data and machine learning development of recommendation system at pre-seed start-up Mottli - a social discovery app. Part time. Available in beta on

• Sole responsibility of entire data engineering and machine learning architecture at Mottli. Data sourcing, ingestion, training, evaluation and deployment to app back-end api.
• Closely aligned with front-end, back-end, and product teams to influence machine learning intersectional decisions for core venue recommendation system.
• Tech stack: AWS, Heroku, Python, LightFM, GitLab CI, CML, S3.

ANGLO AMERICAN | Machine Learning Specialist (Contract)

London, UK   September 2019 - December 2020

Machine Learning Specialist with responsibilities ranging between Data Science, ML Engineering, Cloud Architecture, Dev Ops & Management. Overlapped at Accenture.

• Data science lead for implementation and productionisation of AI-guided plant optimisation web applications at 2 global mining sites in Australia and South Africa.
• Python, Databricks, Kubernetes, Azure based stack for scalable distributed machine learning model endpoint deployment. Personally implemented and responsible for > 30 production models in AKS with annual returns > $10m PA.

ACCENTURE | Consulting Data Science Analyst

London, UK   March 2018 - August 2020

Client-facing data science consultant for 2.5 years with industry experience across Python, git, cloud (Azure), ML lifecycle & decision support IOT models, generated >$15m proven value benefit across multiple multinational clients and public sector.

• Developed skills across the end-to-end machine learning pipeline: business problem formulation, value assessment, high-level architecture, data cleaning, analysis, statistical modelling, feature engineering, training, and scalable deployment to production.
• Built NLP capability for UK Police's largest AI project tackling Serious Violent Crime.
• Devised growth strategy for scale-up social enterprise for core recommender product.
• Designed, built and implemented turbine part QA and compliance AI decision support tool.
• Managed off-shore software development resources and onshore remote data scientists.
• **Led multiple client deliveries** and ML workstreams at FTSE 100 & multinational firms as well as start-ups and social enterprises.

EDUCATION

MSCI NATURAL SCIENCES | Physics and Computer Science
First-Class Honours

University of Durham   2013 - 2017

• Computational astrophysics • Nuclear physics • Rocket physics • Artificial intelligence (classical and ML) • Quantum computation • Network analysis • Software engineering
Master's Dissertation: Crystalline laser spectroscopy for next-generation sustainable photovoltaic solar-cell devices (Cu_2ZnSnS_4)

A-Level: A* Mathematics, A Physics, A Chemistry, B Biology, A* Extended Project
GCSE: 6 A*'s 4As including French and Spanish