


Oliver Stanley

Machine Learning Engineer

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 oliestanley

Education

MSc., Data Science

City, University of London
2020 - 2021 | London, UK

BSc., Economics

University of Birmingham
2017 - 2020 | Birmingham, UK

Skills

Programming

Python, SQL, Java, Rust

ML Fields

Vision, NLP, regression, classification,
time series, unsupervised learning

ML Frameworks

PyTorch, TensorFlow, SciKit, SageMaker,
NLTK, HuggingFace, Captum

Data Engineering

NumPy, Pandas, Polars, SciPy, OpenCV,
PySpark, Streamlit

Cloud

AWS, Azure, Docker, Terraform

Tools

CI/CD, Git, MLflow, DVC, FastAPI, Jupyter

Mathematics

Linear algebra, calculus, optimisation,
Bayesian statistics, causal inference

Summary

Machine learning engineer and data scientist with two years of industry experience following one year in research. Broad knowledge of researching, building, deploying, and maintaining ML models and applications with a focus on computer vision, language models, and MLOps. Strong stakeholder management skills. Experience deploying and managing cloud infrastructure using AWS and Azure.

Experience

Apr 2022 Present **Artificial Intelligence Engineer** Kainos | Birmingham, UK

- Solved ML problems with a focus on building vision models using PyTorch, and optimising models for deployment.
- Analysed and derived business value from complex image, text, and tabular datasets.
- Built image processing solutions, implemented CI/CD pipelines, wrote high-quality Python code, deployed ML solutions to AWS and Azure, and tracked experiments with MLflow.
- Managed stakeholders including clients, mentored and onboarded junior engineers, and presented knowledge shares on a range of ML and adjacent topics.

Jul 2021 Apr 2022 **Graduate Artificial Intelligence Engineer**

- Worked on ML problems for clients and research with a focus on vision. Built and evaluated PyTorch and TensorFlow models.
- Implemented model explainability with Captum, and deployed models behind APIs with SageMaker, AWS Lambda, and Docker.
- Implemented state-of-the-art approaches from research in vision.
- Produced high-quality Python code to implement solutions and implemented best practices in engineering and MLOps.

Aug 2017 Jul 2021 **Freelance Software Engineer** Freelance

- Worked on projects using Python, SQL, and Java. Included database queries, threading and multiprocessing, network code, and reverse engineering. Delivered on tight deadlines and managed evolving requirements with multiple clients.

Open Source

Dec 2022 Present **Volunteer Machine Learning Engineer** Volunteer

- Worked on backend and ML for Open Assistant, building an instruction-tuned language model following the procedure outlined by the InstructGPT research paper with cutting edge NLP tech.
- Built backend for LLM inference with FastAPI, wrote data mining code, and contributed to the ML workflow applying supervised fine-tuning and reinforcement learning from human feedback.

Research

2021 **MSc. Thesis: Deep Learning for Macroeconomic Forecasting**

Certifications

- AWS Certified Machine Learning Specialty
- Microsoft Certified Azure Data Scientist Associate
- AWS Certified Cloud Practitioner
- Microsoft Certified Azure AI Fundamentals