

SAM CONSIDINE

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Machine Learning Engineer specialising in Deep Learning with a Master's degree and 4 years of experience.

SKILLS

Languages: Python, JavaScript, C/C++

Libraries: PyTorch, TensorFlow, Pandas, SciKit-Learn, OpenCV, SQL, PostgreSQL, matplotlib, seaborn, plotly, NumPy, SciPy, Keras, Docker, PySpark, Scrapy, BeautifulSoup, FastAPI, Dash

Tools: Linux/Unix, git & GitHub, AWS, GCP

EDUCATION

University of Cambridge, MPhil Advanced Computer Science

Oct 2021 - July 2022

- **Pass with distinction** in a research Masters with a specialisation in Machine Learning.
- Awarded **highly commended research project**, an award given to the best research of the intake (of around 80 students) - using graph neural networks to investigate the effects of gene expression on cell development.

University of York, BSc Mathematics

September 2013 - July 2017

- **First-Class degree** in Mathematics with a specialisation in Statistics. Dissertation on computer vision.

EXPERIENCE

Research Assistant, University of Cambridge

July 2022 – October 2022

- Led a team of 3 PhD students aiming to publish work from my thesis. Positive results were attained and we hope to publish in Nature Methods.
- Developed and productionised an entire web-based platform, using cutting edge AutoML and Explainable AI research, allowing medical practitioners to use AI tooling to aid diagnosis.

Data Scientist, Arca-Blanca

May 2021 – October 2021

- Led a project doing customer segmentation for one of the UK's largest software companies. Analysis of segments showed that targeted marketing on particular segments could increase revenues by up to £42 million. The project is now a widespread initiative at the company led by the marketing director.
- Started an initiative to parse a client's sales records to discover that a widespread discount service didn't amount to a commensurate increase in sales, saving the company millions in gross profit.

Machine Learning Engineer, After the Off

September 2017 - January 2021

- Lead developer on our main horse racing product: using machine learning on live data feeds to generate in-play odds for horse races, establishing us as a leading provider of in-play horse racing odds.
- Created and led a project using computer vision to derive horse positions on a race track in real time using only a live video feed of the race.
- Responsible for the full machine learning lifecycle, productionising models and monitoring them for drift and to drive business insights.
- Predictive modelling of time-series betting markets.
- Owner of our betting market records, a PostgreSQL database of millions of financial transactions.

Research Assistant, University of York

July 2017 - September 2017

- Hired to continue work on my dissertation, using computer vision to analyse cell behaviour.

Self-Employed, Uptodata

June 2012 – December 2016

- Started a successful marketing company, providing marketing data to wholesalers.