

Joshua Snyder

Machine Learning / Statistics

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// RECENT EXPERIENCE

Machine Learning Intern, Cambridge — *Techspert.io*

JUNE 2020 - PRESENT

Developing a reinforcement learning agent to crawl network graphs effectively to find websites containing the profiles of academic researchers. [Tensorflow, AWS]

Data Science Volunteer, London — *DataKind*

NOVEMBER 2018, NOVEMBER 2019

Improved the way that participating charities manage their data, helping them increase the efficiency and efficacy of their work. This was together with a team of around 20 data scientists, over the course of two DataDive weekends. [Python]

// EDUCATION

University of Cambridge, *Bachelors and Masters in Mathematics*, Overall Mark 91%

2016 - 2020

Pure Mathematics, Statistics and Computer Science. Focused on classical machine learning problems. Relevant topics include:

Mathematics of Machine Learning, Statistical Learning Theory, Coding & Cryptography, Automata Theory, Astrostatistics, Logic & Set Theory, Algorithms, Foundations of Data Science, Natural Language Processing

QE College, York — *A Level and STEP Mathematics*

2014 - 2016

Top 10 globally in STEP I. Achieved 98% in Maths (A*), 96% in Further Maths (A*) and 89% in Chemistry (A). Self-studied the majority of mathematics courses.

// PROJECTS

Dynamic Network Embeddings

Researched the use of popular NLP algorithm Word2Vec for generating network embeddings for large dynamic networks. This work was my master's thesis.

RL Game Agents — *Connect 4, Pong*

Created agents for playing the classical games Connect 4 and Pong using Q-Learning and Policy Gradients respectively. [Python, Gym]

// LANGUAGES & TOOLS

English, Python, SQL, AWS, PHP,
HTML & CSS, MATLAB

// SKILLS

Statistics

Machine Learning

Entrepreneurship

Product Development

// FOCUS INTERESTS

Reinforcement Learning

Ethics of AI

// CERTIFICATIONS

Deep Learning Specialisation
Andrew Ng's Coursera Series

Machine Learning Bioinformatics
Institute, Cambridge, UK

Data Science with Python
Bioinformatics Institute,
Cambridge, UK

// REFERENCES

Jack Smith, St. John's College,
Cambridge, UK
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Geraint Harcombe, Software
Developer, Techspert.io
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