

Kannan Sekar

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[sekar](#)

Summary

Machine learning is my primary field of interest.

Experience



Data Science Internship

NHS Digital

Nov 2019 - Nov 2019 (1 month)

Developed a Natural Language Processing project (for Patient Diagnoses mapping) in Python to predict ICD9 codes by using word embedding tools such as Word2Vec, dimensional reduction (TSNE), and then training an LSTM recurrent neural network on a sequence of ICD9 codes of past patient data to prognostically predict future diagnoses.

Attended sprint planning sessions, agile sessions. Took on a NLP project, and presented it.



Internship

Kennedy Institute of Rheumatology

Nov 2019 - Nov 2019 (1 month)

Shadowing Informatics manager, coming back for more work experience later. Learnt about how neural networks work fundamentally and how to implement them in Tensorflow. Image classification and digit classification using MNIST datasets. Made a LSTM cryptocurrency trading bot.

Education



KCL

Bachelors of Science - BSc, Artificial Intelligence

Sep 2024 – 2027



UCL

Master of Engineering - MEng, Computer Science

Sep 2021 - 2023



Royal Grammar School Newcastle

A Level, Mathematics, Further Mathematics, Physics

Sep 2017 - Aug 2020

A* Mathematics, A* Further Mathematics, A* Physics



Royal Grammar School Newcastle

GCSE, Mathematics, Physics, Chemistry, Biology, Economics, English Literature, Spanish, Further Maths

Sep 2012 - Aug 2017

7A*s 4as.

A*s in Mathematics, Physics, Chemistry, Biology, Economics, English Literature, Spanish

As in Further Mathematics, English Language, History, Geography.

Licenses & Certifications



CS50x - Harvard University

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Python 3 - Codecademy



Artificial Intelligence - MIT OpenCourseWare



Machine Learning - Stanford University

WZPCZKU8PJA9



Deep Learning - DeepLearning.AI

BDYCCTSVUHD3

Skills

Mathematics • Machine Learning • Python (Programming Language) • Artificial Intelligence (AI) • Physics • Deep Learning • Programming • Algorithms • Data Structures • Computer Vision

Honors & Awards

Data Science Intern - Innovative Uses of Data Team Mr Jonathan Hope

Nov 2019

UKMT Challenge - United Kingdom Mathematics Trust

Sep 2016

Taught by Mr H Rashid (2019), Mr T E Keenan, Mr Gibson and Mr D A Jardine (2017), Mr Watkins (2016)

British Physics Olympiad - BPhO

Oct 2018

Taught by Mr J L Camm and Mr E T Rispin

3x Headmaster's Prize - Mr Bernard Trafford