

# Kannan Sekar

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## 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 MINST datasets. Made a LSTM cryptocurrency trading bot.

## Education



### UCL

Master of Engineering - MEng, Computer Science

2021 - 2025



### Royal Grammar School Newcastle

Mathematics, Physics, Further Mathematics, A\*A\*A\*, A Level

2012 - 2020

Results:

- A level: A\*A\*A\*

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

- GCSE: 7A\*s 4As, with A\*s in Mathematics, Physics, Chemistry, Biology, Economics, English Literature, Spanish. As in Further Mathematics, English, Geography and History.

- Awarded the Headmaster's Prize for 3 consecutive years in Year 9, 10 and 11 of schooling.

## 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 • Swift (Programming Language) • TensorFlow • Keras • Gensim • Pandas (Software)