

# Kannan Sekar

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## Summary

Machine learning is my primary field of interest.

## Experience



### Chief Executive Officer

Kannan Industries

Jul 2022 - Present (1 month +)

DRai Token DeFi update soon

### Software Engineer

Endowment Science

Jul 2022 - Present (1 month +)

TechLead & Software Engineer at EndowmentScience.com

Focused on Python, Tensorflow, Django, Flutter, iOS, Android, Web 3.0, Firebase, Google Cloud Products.



### 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

Sep 2021 - Present



### **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

## **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

Aug 2017

<https://twitter.com/bernardtrafford?lang=en>