

# Kannan Sekar Annu Radha

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## Education

- 2024 – 2027 **BSc Physics**, *King's College London*, London, United Kingdom, *1st Class predicted*
- **Relevant Coursework:** Mathematics & Computation for Physics, Classical Physics, Modern Physics, Physics Skills & Techniques, Astrophysics
- 2021 – 2023 **MEng Computer Science**, *University College London*, London, United Kingdom
- **Relevant Coursework:** Principles of Programming (C and Haskell), Theory of Computation, Object-Oriented Programming (Java), Algorithms, Mathematics for Computer Science, Discrete Mathematics, Engineering Challenges (Arduino and Python)
- A Levels **Royal Grammar School Newcastle**, *Newcastle, United Kingdom*
- **A Levels:** A\* Mathematics, A\* Further Mathematics, A\* Physics
  - **GCSE:** 7 A\*s and 4 As in subjects including Mathematics, Physics, Chemistry, Biology, Economics, English Literature, Spanish, Further Mathematics, English Language, History, Geography

## Work Experience

- Nov 2019 **Data Science Intern**, *NHS Digital*, Leeds, United Kingdom
- Developed a Natural Language Processing project in Python to predict ICD9 codes using Word2Vec, TSNE for dimensional reduction, and an LSTM recurrent neural network for prognostic predictions based on patient data.
- Nov 2019 **Intern**, *Kennedy Institute of Rheumatology*, Oxford, United Kingdom
- Shadowed the Informatics Manager and gained experience in neural network fundamentals and TensorFlow implementation.
  - Worked on image classification and digit classification using MNIST datasets.
  - Developed an LSTM-based cryptocurrency trading bot.

## Technical Skills

Programming Languages	Python, C, C++, Java, Haskell, Swift
Frameworks & Tools	TensorFlow, Flask, Matplotlib, Scikit-learn, Word2Vec, TSNE, LSTM, Arduino, ESP32
Operating Systems	Windows, macOS, Linux
Other	Microsoft Office, Photoshop, Final Cut Pro

## Skills & Interests

Languages	English (Native), Tamil (Native), Spanish (Full Professional Proficiency)
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Achievements

- CS50x Harvard University Certificate (ID: 6e593e86fca2494b8b1c9af455a8d29d)
- Machine Learning Stanford University Certificate (ID: WZPCZKU8PJA9)
- DeepLearning.AI Certificate (ID: BDYCCTSVUHD3)

Interests Artificial Intelligence, Machine Learning, Cryptocurrency Trading, Augmented Reality, Game Development

## Projects

NLP Project at NHS Digital Developed a Natural Language Processing project using TensorFlow, Matplotlib, and Scikit-learn to predict patient diagnoses.

Cryptocurrency Trading App Created an automated cryptocurrency trading web application in Python using Flask and TensorFlow.

YoteCoin Developed a cryptocurrency for the Ethereum smart chain.

iPong Game Designed an iPong game for Apple Watch using Swift and CoreML.

DabCounter App Built a DabCounter app for Apple Watch with Swift and CoreMotion.

Robot Abstraction Implemented robot abstraction in C language.

TetrisAI Developed an AI to play Tetris using Python.

AR Snapchat Lens Created an Augmented Reality Snapchat Lens with 2.52 million views and 100K downloads.

Bioreactor Programmed an Arduino-based Bioreactor using C and ESP32 microcontroller.