21 Kennedy Road
IG11 7XJ, London, United Kingdom
📱 +44 7883 143199
✉ kannansekara@gmail.com
in linkedin.com/in/kannansekara
github.com/kannansekara

Kannan Sekar Annu Radha

▬▬ 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)
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.