SHARAN MAIYA

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EDUCATION

The University of Edinburgh *Sep 2016 - Present*
BSc Computer Science and Mathematics (final year) Raw Average: 80%

The Glasgow Academy *Aug 2010 - Jun 2016*
7 Scottish Highers and 4 Advanced Highers all at grade A

PROFESSIONAL EXPERIENCE

Royal Bank of Scotland Summer 2019
Technology Intern *Headquarters, Edinburgh*

· Worked within Performance and Business Management to handle analysis of massive cost datasets and to automate reporting for the 2020 budget cycle (Python).

Centre for Speckled Computing Sep 2018 - Dec 2018
Part-time Researcher *The University of Edinburgh*

· Worked with wireless sensors developed in-house on various projects involving 3D-modelling of movement and rotation in real time (Python, Java, Unity3D).

Centre for Speckled Computing Summer 2018
Research Intern *The University of Edinburgh*

· Developed an Android app for golfers to analyse their swing plane. This used quaternion data streamed in real-time from a wireless sensor worn on the wrist (Java).

SELECTED PROJECTS

Image Segmentation using Spectral Clustering
Implemented a fast spectral clustering algorithm from scratch within the context of image segmentation.
Weather and Wine
Developed a machine learning model to predict the price of wine given various features including the weather at its winery.
Google Location Data
Data exploration / analysis of my Google location history.
Transformer
Direct implementation of the Transformer architecture (outlined in the well-known paper "Attention Is All You Need") in PyTorch.

I regularly attend Hackathons to complete fun projects. For example at **Hack Harvard** my team and I were prize winners with 'HexLedger' - a flexible blockchain-based hacker profile. I worked on the back-end (Python, Multichain API).

RELEVANT COURSEWORK

Data Analysis	(python, numpy, pandas, matplotlib, seaborn)
Machine Learning	(scikit-learn, tensorflow, pytorch)
Numerical Linear Algebra	(matlab)
Statistical Computing	(R)
Algorithms and Data Structures	(python, java)