

Aavash Subedi

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EDUCATION

University of Manchester

Manchester, UK

MPhys: Physics

2020- 2024

- Expected First class with a 85.2 cumulative GPA.
- Relevant Modules: Computational Physics, Machine Learning, Statistics, Linear Algebra, Data Science and Laboratory.

Reading School

Reading, UK

A Level

2017 - 2019

Mathematics(A*), Physics(A), Further Mathematics (A), Chemistry (A)

WORK EXPERIENCE

Electrical Engineering Department, University of Manchester

Manchester, UK

Student Experience Intern: <https://github.com/Arrancara/MagfieldCalcu>

June 2021 – August 2021

- Part of the Electromagnetic Sensing Group working towards creating a smart metal detector for more accurate, efficient, and cost-effective security screening.
- Designed, developed, and published a python, allowing users to quickly find the magnetic field around a 2D shape.
- Reviewed scientific literature to find suitable packages to match the projects' needs.
- Tested the package against pre-existing software (ANSYS Maxwell) to check for accuracy and efficiency.

Barclays Bank

Reading, UK

Essential Banker

November 2019 – July 2020

- Essential Banker within the branch network providing support and solutions to customers.
- Facilitated the flow of customers in the Banking Hall, improving efficiency and the branch's Net Promoter Score.
- Guided customers with opening accounts, ISAs, and other Barclays' products.

Projects:

Climate Hack.AI

London, UK

Hackathon: <https://github.com/BuburuzanAlexandru/climatehack>

January 2022 – March 2022

- Experimented with and iterated over machine learning model architectures to advance the state of art in satellite imagery nowcasting.
- Presented a high-ranking submission representing the University of Manchester in front of a live and virtual international audience.
- Performed hyperparameter optimisation to boost MS-SSIM score of models.
- Finished 6th internationally and 3rd within the UK as a team of 3.

Decay Width Calculator

Manchester, UK

Coursework: https://github.com/Arrancara/decay_width_calculator

November 2021 – December 2021

- Produced a python script to calculate the mass and decay width of products from experimental results as part of a programming module, scoring 97.5%.
- Cleaned and analysed the data using statistical methods and NumPy.

Airport Waiting Times

Manchester, UK

Hackathon: <https://github.com/Arrancara/MachineLearningGUH2021>

November 2021 – November 2021

- Trained machine learning models to predict the waiting times for customers as part of GreatUniHack (GUH2021).
- Cleaned and analysed the dataset using NumPy, Pandas, and Seaborn.
- Achieved an accuracy of 98% using TensorFlow and Keras.

VOLUNTARY EXPERIENCE

Students Union, Junior Common Room Association (JCR)

Manchester, UK

Treasurer

June 2021 - Present

- Maintaining and monitoring the financial records of the JCR; supervising all income and expenditures.
- Signatory for the JCR's funds at the Students' Union, ensuring that expenditures are in accordance with financial regulations.
- Preparing the Annual budget in collaboration with the President.

Skills/Certifications

- Python, Keras, Version Control (Git), Excel/Google Sheet, SQL (BigQuery), Google Cloud Services
- English, Nepalese
- Google Data Analytics Certificate, Jovian - Data Structures and Algorithms in Python
- DeepLearning.AI – TensorFlow Developer Professional Certificate (In progress)