DHRUV SHARMA

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EDUCATION

University College London (UCL)   *Sep 2022 – Jun 2025*
BSc Chemistry with Mathematics
- **Modules:** Applied Mathematics 1, Mathematics for Science 1, Chemical Foundations, Chemical Skills
- **Activities and Societies:** Quant Society, Asset Management Society, Economics & Finance Society

ACS Hillingdon International School (London)   *Aug 2018 – May 2022*
International Baccalaureate (IB)
- **Higher Level:** Mathematics Analysis and Approaches (7/7), Chemistry (7/7), Biology (6/7), Economics (6/7)
- **Total:** 39/45
- **Activities and Societies:** Model United Nations, Student Council, Cross Country

EXPERIENCE

Susquehanna International Group, LLP (SIG) – *Discovery Day*   *March 2023*
- Received an overview of trading, equity research and trading operations from SIG.
- Participated in a market making game, learnt to manage risk and adjust bid-ask spreads to new information.

PROJECTS

Deep Learning Model to Measure User Attention – *Hackathon Submission*   *March 2023*
- Worked in a team of four as part of a 24-hour hackathon to develop an application to analyse the attention of users during video calls and plot a graph displaying how attention varied over the call.
- Trained a deep learning model with TensorFlow to measure user attention. Created a full-stack web application using Flask, with Python to process uploaded videos and plot a graph using matplotlib.
- Created for the purpose of allowing university lecturers to gauge students' attention during online calls.

Impact of London's Cycling Infrastructure – *Independent Research Project*   *Nov 2020 - Jan 2022*
- Wrote a 4000-word research paper, analysing the impact new cycle lanes had on the demand for London's Santander Bikes.
- Processed over 15 GB of data with languages such as SQL and Python, and libraries such as Pandas, to visualize the positive impact cycle lanes have on cycling demand.
- Learnt the benefits and drawbacks of using statistical, rather than ML based models of time series, ultimately performing an STL Decomposition to view changes in cycling demand.

LEADERSHIP

UCL Quant Society Risk Management Research Group   *Aug 2022 – Current*
- Collaborated with team members to create a weekly journal of published research in risk management.

Model United Nations (MUN)   *Aug 2018 – Jun 2021*
- Attended THIMUM, one of the world's largest MUN conferences hosted in the Hague annually, representing South Sudan in 2019 and Iran in 2020.
- Successfully introduced the topic of blockchain technology to an audience with no prior experience, resulting in my resolution being passed by majority vote at Alconbury MUN (over 200 delegates).

ADDITIONAL INFORMATION

Skills: English (Fluent), Hindi (Native)

Certifications: CS50x - Introduction to Computer Science | Harvard University

Coding Languages: Proficient in Python, familiar with SQL, HTML and CSS.

Interests: Scuba Diving (PADI Certified Advanced Open Water Diver), Cross Country.