

# DHRUV SHARMA

<https://www.dhruvs.com> | [linkedin.com/in/DhruvSharma-UCL](https://www.linkedin.com/in/DhruvSharma-UCL) | [github.com/DhruvSkyy](https://github.com/DhruvSkyy) |

## 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)
- **Standard Level:** English Language and Literature (6/7), Italian ab initio (4/7)
- Economics Extended Essay (A), Theory of Knowledge (A)
- **Total:** 39/45

## PROJECTS

### **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.

### **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.

## 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).

### **Student Council and Afterschool Study Program**

*Aug 2019 – May 2022*

- Elected by the students at my school into the student council, where I collaborated with other student council members to run several fundraisers, donating profits to charity.
- Helped run afterschool tutoring sessions, aiding students in solving problems and clarifying concepts.

## 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, Chess.