

RISHABH SINHA

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EDUCATION

UNIVERSITY COLLEGE LONDON

Mathematics with Economics

London, EN
2023 - 2026

- Passed Year 1 with First Class Honours
- Relevant Coursework: Real Mathematical Analysis, Linear Algebra, Multivariable Calculus, Programming, Introduction to Econometrics, International Finance, Investments

SINGAPORE INTERNATIONAL SCHOOL

International Baccalaureate Diploma Programme

Mumbai, MH
2021 - 2023

40/45- *Mathematics AA, Physics, Economics HL; Mathematics Extended Essay*

- Attained Distinction with a Subject Award in Economics
- Engaged in multiple volunteer activities throughout academic year: PureEarth: Promoted environmental awareness through a student organization; Indian Cancer Society: Helped raise over 7,000 for cancer patients

WORK EXPERIENCE

INDIAN INSTITUTE OF TECHNOLOGY

Intern

Kanpur, Uttar Pradesh
August 2024 - September 2024

- Interned with Professor Dootika Vas. Research work focused on statistical problem of Gerrymandering
- Researched various algorithms and methods used to detect Gerrymandering, along with revisions. Internship concluded with creation of a basic model in R Studio to detect Gerrymandering on a smaller scale
- Previously interned at IIT Gandhinagar under Professor Jay Thakkar. Designed and engineered a machine-learning-driven paper-box robot regularly outperforming humans in small strategy-based games such as Hexapawn

CHANGEMAKER - MATHEMATICS UCL

Student Research Partner

London, EN
June 2024 - September 2024

- Funded Research Project involving qualitative and quantitative data analysis of recent mid-session exams, to evaluate its usefulness for student preparation.
- Reviewed student feedback and data collected through focus groups & workshops, working with two professors and another student partner
- Co-drafted a summary of findings and supporting project members in drafting a student guidance material
- Co-presented at UCL MAPS Education Forum - Expectation Gap

PAYTM, ONE97 COMMUNICATIONS LTD

Intern

Mumbai, MH
June 2024 - July 2024

- Interned under the Data Science team, supervised by Sir Tanmay Bhowmik. Work involved research and understanding of Transformers and Neural Networks, focusing on developing a multivariate time series model

GOOGLE PAGERANK - RESEARCH PROJECT UCL

Student Research Project

London, EN
May 2024 - June 2024

- Completed a Student Mathematics Project end of Year 1, specializing in Linear Algebra
- Utilized Markov Chains and Stochastic Matrices to analyse and model data, with a group of 4
- Researched ranking mechanisms in Google search results and analysed the PageRank algorithm, culminating in a detailed presentation of key findings and insights

LEADERSHIP

ECONOMICS AND FINANCE SOCIETY - UCL

Welfare Officer

London, EN
October 2023 - Present

- Hold second-highest leadership role in UCL's largest financial society, driving strategic initiatives and organizational growth
- Oversee EFS's all 10 divisions, to organize finance talks, panel events, consulting workshops, etc
- Manage Internal Affairs and safeguard society's operational efficiency, resulting in a record-high membership rate
- Began tenure with EFS as a first year representative with the Marketing Division

ADDITIONAL INFORMATION

- Silver Honour - IYMC , Bronze Award - PIMSO
- Proficient in Excel, PowerPoint, Desmos, Photoshop, Sony Vegas Pro, Python, LaTeX
- Football, Cricket, Climbing, Cycling