

EDUCATION

Imperial College London, London, UK

MSc Pure Mathematics

Oct. 2021 – Oct. 2022 (expected)

MSc Project: Reciprocity Laws (Algebraic Number Theory)

Tata Institute of Fundamental Research, Mumbai, India

Vigyan Vidushi Programme in Mathematics

Jul. 2021 – Jul. 2021

Graduate Summer School for exceptional women in Mathematics

Jesus and Mary College, Delhi University, Delhi, India

BSc (Hons) Mathematics

Jul. 2018 – Jul. 2021

Overall Batch Topper 2018-21

Awarded Scholarship for Year 1,3

Awarded Scholarship for Department Rank 1 throughout 2018-21

CGPA: 9.59/10.00

EXPERIENCE

Cerebry, New Delhi, India / Singapore

Subject Matter Expert

Jul. 2021 – Sep. 2021

- Encouraged creative thinking and motivated students by developing intuition-based mathematical problems across diverse curriculum.
- Designed dynamic problems based on student interests which are implemented by AI to increase overall student GPA by adjusting to their level of difficulty.

Jesus and Mary College, New Delhi, India

Undergraduate Researcher

Aug. 2020 – Apr. 2021

- Worked on Fractals and their Relationship with Viruses under Dr Alka Marwaha.
- Studied the characteristics and applications of Fractals with special emphasis on analysing the relationship between a virus and its fractal dimension and concluded SARS-CoV-2 is lesser fatal and more curable than HIV.

IIT Kanpur, Kanpur, India

Students Undergraduate Research Graduate Excellence Intern

Jun. 2020 – Nov. 2020

- Selected among 60 candidates from a pool of 6000+ candidates to work under Dr DLVK Prasad as a SURGE intern.
- Gathered and arranged research data to create graphical simulations and represent the COVID growth pattern in term of exponential, logistic and power-law equations.

Harish Chandra Research Institute, Allahabad, India

Student Summer Intern

Jun. 2020 – Jun. 2020

- Worked under the supervision of Prof. Manoj Kumar Yadav.
- Discussed in detail intricate concepts of abstract algebra and learnt to view proofs in a newer light.

PROJECTS

Applied Data Science Lab offered by WorldQuant University: Currently working on determining the sale prices of housing in Mexico by analysing 21,000 properties for sale in Mexico.

Data Science and Machine Learning: InstaBot • Logistic Regression • Text Classification • Cifar-10 (In progress)

Economics: GDP & Unemployment- A Paradoxical Relationship (Group Project) • 2008 Financial Crisis and its Impact on Indian Economy • Review of 'Why Nations Fail' by Daron Acemoglu and James Robinson

Public Policy: PM Kisan Scheme (Group Project) - Won Policy of the Month title

SOCIETIES

Alumni Mentoring Scheme: Imperial College London- Mentee

Department of Mathematics: Jesus and Mary College- Content Writer

Finance and Investment Cell: Jesus and Mary College- Content Writer

Public Policy and Analysis Cell: Jesus and Mary College- Policy of the Month Writer

National Service Scheme: Delhi University- Volunteer (240+ Hours)

RECOGNITION

2021 -Overall Topper BSc (Hons.) Mathematics

2021 -Third Year Topper in BSc (Hons.) Mathematics

2018 -First Year Topper in BSc (Hons.) Mathematics

SKILLS

Technical: Java • Lean • Python • SQL • MATLAB • R • Mathematica

Linguistics: English • Hindi • French • Japanese • Sanskrit