

Vishnu Varadarajan

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A student of Mathematics with a strong interest in geometry and topology, particularly algebraic methods of their studies. Also interested in theoretical machine learning, and probability theory.

Education

Ashoka University

Aug 2024 – Current

BSc in Mathematics and Computer Science. Graduating in May 2027.

- CGPA: 3.81/4.00 Major GPA: 3.94/4.00

[View transcript \(Feb 2026\)](#) [↗](#)

Experience

Research Intern

Ashoka University

Under Prof. Debayan Gupta, Ashoka University

Oct 2025 - Current

- Working on a Theoretical Machine learning project, trying to understand the relation between Robust Generalisation (Generalisation to adversarial data) and the Lipschitzness/Smoothness of the learnt model.

Research Intern

Ashoka University

Safexpress Center for Data, Learning, and Decision Sciences, Ashoka University

May 2025 - Jan 2026

- Working on a Machine learning, Data Analysis and Satellite image analysis project to detect Mining activity under Professor Anustubh Agnihotri.

Teaching Assistant

Ashoka University

CS-1102: Introduction to Computer Science, Ashoka University

Spring 2025, Spring 2026

CS-1110: Discrete Mathematics, Ashoka University

- Assisting in teaching Introduction to Computer Science Course taken by Professor Debayan Gupta and Aalok Thakkar, and the Discrete Mathematics Course taken by professor Mahavir Jhawar.
- Taking Discussion Sessions, Labs, and Office Hours. Preparing and grading assignments and exams.

Teaching Assistant

Ashoka University

Lodha Genius Program, Ashoka University

May 2024, May 2025

- Assisted in teaching in the Geometry Course taught by Professor Sneha Chaubey in May 2024, and the Number theory Course taught by Professor Shanta Laishram, in 2025.
- Took Discussion Sessions and Office Hours to help students. Prepared and graded assignments and exams.

Projects

Local Dynamics Around Attracting Fixed Points of Meromorphic Maps

May 2025

- [Link to Paper](#) [↗](#).
- This was a reading/expository project on complex dynamics, carried out under the guidance of [Dr. Niladri Patra](#) [↗](#), written jointly with Anwesha Ghosh
- The paper surveys the local behaviour of meromorphic maps of the Riemann sphere in the neighbourhood of attracting fixed points.

The Generalised Stokes theorem and Calculus on Manifolds

Oct 2024

- Expository paper published on a website.
- Part of the Maths Apprenticeship Program at Ashoka University that took place over the summer of 2024. Followed by a poster presentation at the program's final showcase.
- [Link to paper](#) [↗](#) [Link to poster](#) [↗](#)

Co-curriculars

- Learned guitar and bass guitar for about 6 years. Gave institute exams to the level of trinity grade 3. Member of the western choir at Ashoka University as a guitarist.
- Member of Ashoka University's Photography Club.