

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

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

Aug 2024 – Current

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

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

Experience

Research Intern

Under Prof. Debayan Gupta, Ashoka University

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

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

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

CS-1102: Introduction to Computer Science, Ashoka University

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

Lodha Genius Program, Ashoka University

Ashoka University

May 2024, May 2025

- Assisted in teaching in the Geometry Course taught by Professor Sneha Chaudhary 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.