Vishnu Varadarajan

⌖ Sonipat ✉ vishnu.varadarajan_ug2023@ashoka.edu.in ☏ +91 7709626426 ⌨ vishnuva24

A mathematics and computer science student with a strong interest in pure math, research, and its applications. I have experience in teaching, robotics, and programming, and enjoy working with both theoretical concepts and hands-on projects in STEM.

Education

Ashoka University *Aug 2024 – Current*
BSc in Mathematics and Computer Science. Graduating in May 2027.

- **CGPA:** 3.81/4.0. **Major GPA:** 3.94/4.0 (transcript as of May 2025 ↗)
- **Coursework:** Calculus, Linear Algebra, Probability and Statistics, Multivariable Calculus, Real Analysis, Abstract Algebra, Number Theory, Discrete Mathematics, Introduction to Computer Science, Data Structures and Algorithms. Current courses include Field Theory, Metric and Topological Spaces, Elliptic Curves, Machine Learning, Design and Analysis of Algorithms, and Reinforcement Learning.

Experience

Teaching Assistant *Ashoka University*
CS-1102: Introduction to Computer Science, Ashoka University *Jan 2025 - May 2025*

- Assisting in teaching first and second year students in the Introduction of Computer Science Course taken by Professor Debayan Gupta and Aalok Thakkar.
- Taking Discussion Sessions, Labs, and Office Hours to help students understand the concepts and solve their doubts. Preparing and grading assignments and exams.

Teaching Assistant *Ashoka University*
Lodha Genius Program, Ashoka University *May 2024 – June 2024*

- Assisted in teaching high school students in the Lodha Genius Program (LGP) in the Geometry Course of the Mathematics curriculum taught by Professor Sneha Chaubey.
- Took Discussion Sessions and Office Hours to help students understand the concepts and solve their doubts. Prepared and graded assignments and exams.

Projects

The Generalised Stokes theorem and Calculus on Manifolds - *Vishnu Varadarajan* *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 ↗ Link to programme ↗

Shuttle Portal *Dec 2023*

- A Vue-based web prototypical portal for the university's shuttle service.
- Built as a part of the Environmental Studies course at Ashoka University and implemented additional features based on a campus survey.
- Contains frontend and minimal backend work.

Drone *2022*

- Constructed a quadrocopter, initially employing a pre-programmed flight controller and subsequently explored Arduino integration.
- Designed chassis and flight controller circuitry.

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.