

Avrojit Joydhar

INDIAN INSTITUTE OF SCIENCE RESEARCH AND EDUCATION THIRUVANANTHAPURAM

avrojit23@iisertvm.ac.in  [in/avrojit-joydhar](https://www.linkedin.com/in/avrojit-joydhar)

 github.com/avrojit

EDUCATION

BSMS IISER THIRUVANANTHAPURAM

Thiruvananthapuram, India 2023-2028

Relevant Courses : Mechanics, Introduction to Mathematical Logic, Calc I, Calc II, Differential Equations, Introduction to AI, Mathematical Foundation to AI, Linear Algebra, Evolution, Introduction to Python, Introduction to C, Introduction to C++, Complex Analysis, Optimization Techniques, Data Analysis Using Python

SKILLS

- **Python:** numpy, pandas, matplotlib, sklearn, building CLI tools
- **R:** tidyverse, ggplot
- **MATLAB:** data visualisation, linear algebra
- **General Coding:** git, bash, shell, JQuery
- **Markup:** Latex, HTML, CSS
- **Software:** Obsidian, MATLAB, Canva, Figma

UNDERGRADUATE RESEARCH EXPERIENCE

School of Mathematics(SoM, IISER Thiruvananthapuram)

Thiruvananthapuram, India 5/2024 -8/2024

Summer project in Applied Mathematics, PI: Dr. Sudarshan Kumar

- Title: Solutions to Ordinary Differential Equations and Applications
- Worked on Simulating different Methods and Solutions to ODEs both Classical and Modern Solutions
- Implemented some methods on Normal Equations and simulated it using ggplot and Python
- Github : [Here](#)

School of Mathematics(SoM, IISER Thiruvananthapuram)

Thiruvananthapuram, India 8/2024 -12/2024

Semester project in Applied Mathematics, PI: Dr. Sudarshan Kumar

- Title: Numerical Analysis of Partial Differential Equations
- Working on Simulating different Partial Equations

OUTREACH

Frontier Symposium- School of Mathematics(SOM)

11/2024

- Designed the website for Frontier Symposium for Mathematics 2025-Link

IGEM 2024 (Volunteer)

5/2024 - 9/2024

- Designed the IGEN WIKI-[PETAL](#)

Science and Technology Council, (Coordinator)

1/2024 - present

- Participated in the first Outreach Programme at JNV, Vithura.
- Helped in developing Science Activity Centre
- Developed Cafe Scientifique: a one-on-one friendly session between professors and students
- Making the Official Science and Technology Website

Exhibit A- Science Magazine (Coordinator)

6/2024 - present

- Maintaining the Exhibit A Website

Crucible- IISER TVM Science Activity Centre (*Coordinator*)

6/2024 - present

- Developed and Maintaining the Crucible Website with Dr Sanu Shameer

PARSEC-The Astronomy Club (*Head*)

6/2024 - present

- Social Media Management
- Deploying the official PARSEC Website
- Conduct Outreach Sessions
- Manage the Treasury of the Club

ACHIEVEMENTS

- JEE ADVANCED Rank Under 9500 out of 100000 Candidates