

# Curriculum Vitae



## Aniket Mishra

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### Education

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**Indian Institute Of Science Education and Research (IISER) Kolkata**  
BS-MS in Physical Sciences

Kalyani, Kolkata  
Aug 2023 – May 2028 (**Expected**)

- **Cumulative GPA (As of 4 semesters):** 7.57/10.0
- **Relevant Coursework:** Introduction to Computer Programming, Introduction to Computation, Mechanics I, Mechanics II, Electricity and Magnetism, Physics Laboratory I (LCR, Coupled Pendulum, Dulong-Petit Law, Stokes Law- Calculation of coefficient of viscosity, Young's Modulus), Waves and Optics, Optics Lab (Single slit - Double Slit Diffraction, Diffraction Grating, Verification of malus law, Michelson Interferometer, Study of Newton's rings), Basic Quantum Mechanics, Thermal Physics, Mathematical Methods of Physics, Modern Physics Lab (Electron Diffraction, Frank Hertz Experiment, Photo electric effect, Stefan Boltzman law of radiation, Velocity of light), Linear Algebra I, Analysis I

**Alpha Junior College Of Science and Commerce**

Vileparle, Mumbai  
2023

- Class 12, HSC (Maharashtra Board) - 77.67%

**St. Francis De Sales School**

Nallasopara, Mumbai  
2021

- Class 10, SSC (Maharashtra Board) - 89.60%

### Projects

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**A Study on Hysteresis Loop**

March 2024 - November 2024

Under Dr. Bheemalingam Chittari (IISER Kolkata)

- Used Ubermag [a package which provides the popular open-source micromagnetic simulation software OOMMF (Object Oriented MicroMagnetic Framework) a Python interface] to simulate the hysteresis loop.
- I changed the Exchange Energy of a cubic system in various configurations to deduce how the area under the normalized hysteresis loop changes.

**Modeling Stellar Structure and Evolution: A Computational Study**  
**Using MESA and Theoretical Frameworks**

May 2025 - July 2025

Self-Project

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### Workshops Attended

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1. Attended Short Term Training Project (STTP) on "AI and ROS for Robotics : Theory and Practice" conducted during 11-15 Dec 2023 at IIITDM Kancheepuram, Chennai.
2. Attended Machine Learning Workshop conducted during Techfest, IIT Bombay from 27th - 29th December 2023.

### Position Of Responsibilities

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1. Convener, Gaming Club Of IISER Kolkata (GCIK)

2024-25

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|---|---------|
| 2. Finance and administration sub-committee member, Student Monitored Canteen (SMC)         | 2024-25 |
| 3. Event Organizer of the Inquivesta XI Esports event “Headshot”, held between 7-9 Feb 2025 | 2024-25 |
| 4. Event Coordinator of Inquivesta XII - one of the largest science fest in India           | 2025-26 |

## Relevant Skills

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- **Programming Language:** Python(Intermediate Proficiency), Ubermag (Python package to run micromagnetic simulations), C++ (Beginner), Fortran (Beginner), MESA (Modules for Experiments in Stellar Astrophysics)
- **Tools:** GnuPlot, OriginLab, Typst, Excel
- **Other Coursework :** Organic Synthesis Lab, Ecology
- **Soft Skills:** Time Management, Team Handling, Planning, Flexibility

## Accomplishments

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1. Nominated as one of the Top teams of Internal Hackathon at IISER Kolkata during September 2024.

CERTIFICATE