

EDUCATION

IISER Kolkata

BS-MS Dual Degree program (Major in physics)

- Current GPA:9.44/10
- Master's Thesis: ""

Mohanpur, West Bengal

2021–2026(expected)

Burdwan Municipal High school

Higher Secondary schooling

- secured 98.4% (492 out of 500) and ranked 8th in state West Bengal out of 0.7 million students.

Burdwan, West Bengal

2019–2021

RESEARCH EXPERIENCE:

MS Thesis:

Jan 2025-Now

- Supervisor-Prof. Arnab Rudra(Strings group IISER Bhopal), Co-supervisor- Prof. Koushik Dutta (IISER Kolkata)
- A more detailed explanation of the project

IISER Kolkata

Supervisor- Prof. Rajesh Kumble Nayak

- Title of the project
- A more detailed explanation of the project

Mohanpur, West Bengal

August 2024- July 2025

Topology and geometry in QM and Anomalies in QFT

Supervisor-Prof. Arnab Rudra(Strings group, IISER Bhopal)

- Title of the project
- A more detailed explanation of the project

Bhopal, Madhya Pradesh

Summer 2024

Neutrino Oscillation: Theory and Observation

Supervisor :Prof Amitava Raychaudhuri, University of Calcutta

- Title of the project
- A more detailed explanation of the project

Kolkata

Summer 2024

Travelling Salesman Problem in Hopfield neural network

Mentor :Manoranjan Singh, RRCAT, Co-mentor: Praveen Pathak, HBCSE, Mumbai

- Title of the project
- A more detailed explanation of the project

Indore, Madhya Pradesh

Summer 2023

SEMINARS AND WORKSHOPS:

NIUS 19.1 camp

HBCSE, Mumbai

Mumbai, India

Dec-2022

- Was selected for National Initiative on Undergraduate Science (NIUS). NIUS, hosted by TIFR, selects 50 top undergraduate students for research projects with professors around India. The offline camp includes lectures on current day fields of research in physics, experimental problem solving sessions on previous International physics olympiad problems, and other such activities. A screening test selects them for further projects

JBNSTS Astronomy camp

JBNSTS,Kolkata

Deoul ,West Bengal

Feb-2023

- Attended JBNSTS astronomy camp , where we were exposed to observational astronomy, telescope handling and observation of stellar constellation and had special solar observation and an informal astronomical photography session.

REYES 2023,UC Berkley

Summer 2023

- REYES(Remote Experience for Young Engineers and Scientists)-2023 is an eight-week summer school organised by University of California,Berkley in virtual mode

QIQT 2023

IISER Kolkata

Summer 2023

- REYES(Remote Experience for Young Engineers and Scientists)-2023 is an eight-week summer school organised by University of California,Berkley in virtual mode

Undergrad Vision: Young Physicists' Symposium

IISER Kolkata

August 2024

- Presented my summer work on 'Particle on ring' in "undergrad vision: Young physicists' symposium " organised by Gluon, Physics club IISER Kolkata.I took pride in saying that I was also a part of the student organizing committee.

SKILLS

- **Programming Language and Frameworks:** Python, Mathematica, Matlab, HTML, Javascript
- **Developer Tools:** VS Code , Anaconda
- **Packages:** NumPy,SciPy,SymPy, matplotlib,Tensorflow

ACADEMIC ACHIEVEMENTS

- **Ranked among the top 25** out of approx 15,000 students nationwide in NGPE(National Graduate physics exam) 2023, conducted by the Indian Association of Physics Teachers(IAPT).
- **Qualified JEE-Main** (Indian standardized test for admission to various technical undergraduate programs in science and engineering across colleges and institutions in India), **percentile -99.27**, All India Rank-7652 among 1.6 million candidates.
- **Qualified JEE-ADVANCED** (Entrance examination for IIT) All India Rank-7842, among 0.3 million candidates selected through JEE-MAIN.
- **Secured 8th rank(out of 0.7 million students)** in West Bengal in 10+2 Board Examination(Higher Secondary Examination
- Selected for BS-MS program at IISER through IAT(IISER Aptitude Test), secured **All India Rank – 16** in IAT(out of approx 30k candidates)
- Selected for B MATH program at ISI Bangalore (All India Rank -68 out of 50k students)

TEACHING

- **Teaching Assistant** at IISER Kolkata
Thermal Physics (PH2202)

Spring 2025

SKILLS

- **Programming Language and Frameworks:**
Python, Mathematica, Matlab, HTML, Javascript
- **Developer Tools:** VS Code , Anaconda
- **Packages:** NumPy, SciPy, SymPy, matplotlib, Tensorflow

LANGUAGES

- **Bengali:** Native proficiency
- **English:** Full professional proficiency
- **Hindi:** Full professional proficiency

SCHOLARSHIPS AND AWARDS

- **Qualified Kishore Vaigyanik Protsahan Yojana (KVPY) Examination 2021** , the then national level selection examination for a scholarship programme funded by the Department of Science and Technology (DST), Government of India, for pursuing an undergraduate degree in basic science, with an All India Rank of 21 (General Category) out of around 5K candidates and 46 offered scholarships.
- **Qualified JBNSTS Senior Fellowship-2021**, awarded by JBNSTS(Jagadish Bose National Science Talent Search)Kolkata to top 60 students of first year Undergraduates pursuing STEM , out of approx 6k applications.

EXTRACURRICULAR ACTIVITIES

- Core-Committee of GLUON 2024 Aug–2025 Jun
Served in Core-committee of 'GLUON', Physics club of IISER Kolkata. Organised 'Undergrad Vision: Young physicists' symposium' , a unique event only for undergrad and master's student to present their research work . Hosted 15 talks in 2 days. Hosted 20+ talks by alumni , current student and professors in my tenure .
- Member at Badminton club IISER Kolkata
Participated in Badminton Auction tournament-2025
- Member at Lit Club IISER Kolkata
I'm an avid fan of Bengali and English literature. I can't imagine my life without classics like Harry Potter, Percy Jackson and 'A song of ice and fire'.