

Triptesh Acharjee

Roll No.: 234678

B.Sc (Hons) in Physics

Fergusson College (Autonomous), Pune

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EDUCATION

- **Fergusson College (Autonomous), Pune** 2023-2027(*expected*)
B.Sc (Hons) in Physics CGPA: 8.02/10.00
- **Jusco School Kadma, Kadmal** 2021-2023
Pre-University Studies Percentage: 63.6%
- **Carmel Junior College** 2011-2021
Secondary Studies Percentage: 80%

SKILLS

Languages: English, Hindi, Bengali, Marathi, Punjabi

Programming Tools: Python, Java, HTML, LINUX, LaTeX, MYSQL

MS Office: MS Word, MS Excel, MS Powerpoint

Soft Skills: Public Speaking, Diplomacy, Decision Making, Adaptability, Delegation, Analytical Thinking, Critical Thinking, Research

Coursework: Mechanics, Thermodynamics, Optics, Electrodynamics, Nuclear Physics, Astrophysics, Cosmology, Quantum Mechanics, Particle Physics, Nuclear Physics, Correlation, Data Analysis, Data visualisation, Petrology, Optical Properties of Minerals, Study of megascopic and microscopic rocks

Areas of Interest: Radio Astronomy, Data Analysis, Astrophotography, Telescope Handling

EXPERIENCE

- **Workshop on Data Analytics by IDIA and BRICS** May 2025 - June 2025
Workshop Attendee
Graded: 89/100
 - Learned about the Foundations of Data Analytics.
 - Learned about the Programming and Tools.
 - Learned about the Data Visualisation and Data Cleaning, and Preprocessing
 - Completed a Capstone Project regarding Lightkurve using TESS data and secured a 89 Grade point.
- **Workshop on Astrophysical Dust Ices: Insights from Recent Telescopes by PRL** March 2025
Workshop Attendee
 - Learned about the Astrophysical Dust Ices.
 - Learned about the current trends in observational Cosmology.
- **Workshop on Radio Astronomy by NCRA** March 2025
Workshop Attendee
 - Learned about the Astronomical data by different radio observatories.
 - Learned about the current trends in observational Cosmology.
- **43rd Meeting of the Astronomical Society of India** February 2025
Workshop Attendee
 - Attended talks and seminars on the current trends in Indian Astronomy and Astrophysics by eminent scientists.
 - Presented a Research Poster on "Accelerating Astronomy: An Unified Data Access".
- **Cosmology From Home** June 2024
Workshop Attendee
 - Attended lectures on various aspects of Cosmological research.
 - Gained hands-on training with various theoretical and computational tools.
- **Indian Institute of Remote Sensing- IIRS (Org: ISRO)** January 2024
Workshop Attendee
 - Learned about Remote Sensing.
 - Learned about.
- **Frontiers in Physics** 2024, 2025
Volunteer and Workshop Attendee

- Incharge for Technical Team.
- Attended Lectures on Optical and Radio Astronomy, Attosecond Physics, Spectroscopy and Semi-Conductors.
- **IUCAA National Science Day** 2025
Volunteer and Workshop Attendee
 - Created and presented a 1:50 scale model of the SKAO.
 - Attended lectures on Astronomy, SETI, Unexplained Mysteries, and Solar Physics and attended Q-A sessions with IUCAA's eminent scientists.
- **Astro Club Poster Exhibition** 2024, 2025
Volunteer
 - Presented Posters and Models on Planetary Missions and Concepts related to Electrodynamics.

PROJECTS

- **Accelerating Astronomy : An Unified Data Access**
November 2025-
 - * Status: Ongoing
 - * Tools & technologies used: Python
 - * Developing a secure application to centralize, organize, and visualize international physics research papers with advanced search and categorization tools. .
- **Monitoring Heat Wave Conditions Using WBGT Index**
May 2024
 - * Status: Ongoing
 - * Tools & technologies used: WBGT Software for data analysis, R
 - * This project focuses on collecting and analyzing heat stress data using the Wet Bulb Globe Temperature (WBGT) index at Fergusson College. The study involves measuring key environmental parameters such as air temperature, globe temperature, wet-bulb temperature, and dew point to assess the intensity of heat waves. Data is collected systematically over a defined period and plotted to visualize trends and variations in heat stress levels. The analysis aims to evaluate the impact of extreme temperatures and identify potential risks associated with heat exposure. The findings can contribute to better heat management strategies and awareness regarding thermal stress in outdoor environments.

ACHIEVEMENTS

- **Poster Exhibition** 2023,2024
Participant
 - * 1st position in 2024
 - * 3rd position in 2023
- **Scienceporium** 2022
Participant
 - * 3rd Position

HOBBIES AND INTERESTS

- **Writing:** Quotes
- **Music:** Proficient in playing the Guitar
- **Sports:** Swimming, Waterpolo, Cricket, Badminton, Tennis, Football, Kabaddi
- **Reading:** Science Fiction, Fantasy, Non-Fiction, Self-Improvement