Pursuing **Honors** in **Computer Science and Engineering**

Scholastic Achievements

- Secured **All India Rank 263** in JEE Advanced amongst 1,50,838 eligible candidates *(2020)*
- Secured **All India Rank 185**, with a percentile score of **99.98** in JEE Mains out of 1.02 million candidates *(2020)*
- Among India's top 800 students qualified in **NSEC** and selected for **INChO** *(2019)*
- Cleared **RMO** and qualified to appear in the Indian National **Mathematics** Olympiad(**INMO**) *(2018)*
- Scored **352 out 450** in the entrance test of Birla Institute of Technology and Science(**BITSAT**) *(2020)*
- Secured **39th** rank in **STSE**(Science Talent Search Exam) *(2018)*

Key Projects

Float Moodle | *Course Project* *(Autumn 2021)*
Guide: Prof. Amitabha Sanyal, IIT Bombay

- Developed a **Modular Object Oriented Dynamic Learning Environment** as a part of a team of 4 people.
- Used **Django** as the backend framework and **HTML** & **CSS** to implement the frontend and **PostgreSQL** database.
- Designed **Course Discussion forum, Analytics Page** and **Private Chat** using **redis server**

Gaia data Analysis | *Krittika Project* *(July'22 - Present)*
Guide: Himanshu Verma, Krittika - The Astronomy Club

- Using a basic ADQL query to extract a sample of data from the Gaia server
- Selecting a class of sources from the whole Gaia catalog and analyzing the data using Python to study the various properties of the stellar abundance of the Milky Way

Digit Recognizer | *Self Project (Machine Learning)* *(Summer 2022)*

- Built a digit recognizer using neural networks which takes a 28×28 pixels image and predicts the digit.
- Built a Neural Network model using front propagation and backpropagation techniques.
- The input layer contains 784 nodes and 1 hidden layer with 10 nodes and the final layer with 10 nodes.

Github Profiles | *Course Project* *(September'21)*
Guide: Prof. Amitabha Sanyal, IIT Bombay

- Built a **Web Application** using **Django** framework where users can share their **GitHub** account's statistics, **update** their own profile and also **explore** the profiles of other registered users
- Used **GitHub APIs** and **Python's requests** module to obtain users' data according to their GitHub usernames
- Used Django's **models** and class based **generic views** for rendering the **HTML** and organising the data

Study Planner App | *Course Project* *(Autumn 2021)*
Guide: Prof. Amitabha Sanyal, IIT Bombay

- Built an Android App using **Android Studio** that keeps track of assignments, lectures and exam schedules.
- Added Navigation Menu and tabbed fragments to display different plans and events with a recycler view.
- Implemented a calendar module giving a succinct view of the tasks for any selected day.

Technical Skills

Programming	C/C++, Python, Java, JavaScript, HTML, CSS, Django
Software	Git, LaTeX, MATLAB, Android Studio
Python Libraries	SciPy, NumPy, Pandas, Matplotlib, Astroquery

Position of Responsibility

Coordinator | Events Department | *Abhyuday, IIT Bombay* *(June'21-Dec'21)*

Extracurricular Activities

- Contributed 80+ hrs for community service under **Green Campus, NSS** IITB *(2020-2021)*
- Executed the **Powai Lake** Cleanup with **UNICEF** involving Larsen & Toubro and 300+ volunteers *(June 2022)*
- Studied **Sanskrit** for two years in Intermediate level and received **A1** grade *(2020)*