Pursuing a **Minor** degree in **Artificial Intelligence and Data Sciences** under C-MInDS, IIT Bombay

SCHOLASTIC ACHIEVEMENTS

- Awarded **AP grade** for outstanding performance in the course **BB 101** (37 out of 1373 students) *(2021)*
- Secured **All India Rank 779** out of **150,000+** candidates in the **JEE Advanced** Examination *(2020)*
- Secured **All India Rank 323** (99.978 percentile) in **JEE-Main** out of **1.1 million** candidates *(2020)*
- Stood **4**th **in Maharashtra** in the **Regional Mathematics Olympiad**, qualified for **INMO** *(2020)*
- Qualified for the **Indian National Physics Olympiad** (InPhO), national top **1%** of candidates *(2020)*
- Secured **All India Rank 520** in KVPY-SX and **All India Rank 783** in KVPY-SA *(2019,2018)*

KEY PROJECTS

Early Signs & Prediction of Bankruptcies *(Jun 2022-Present)*
FinSearch 2022 | Undergraduate Academic Council | IIT Bombay
- Gathered and analysed data of **10+ financial ratios** going back a decade for correlation with bankruptcy
- Analysed financial statements of **3** companies and applied **Zmijewski Model** and **Z-Score Model**

Applications of Markov Models in Finance *(Jun-Jul 2022)*
Summer of Science (SoS) 2022 | Institute Technical Council | IIT Bombay
- Performed a review of the literature on applications of **Hidden Markov Models** in areas in finance
- Tested the **Causal Markov assumption** on stock prices by calculating state transition probabilities

Analog Circuit Design using SPICE simulator *(Jun 2022-Present)*
Guide: Prof. Rajesh Zele | C.O.R.E. 2022, Undergraduate Academic Council | IIT Bombay
- Made schematics & performed DC, AC, and transient analysis of **Inverter** and **Ring Oscillator circuits**
- Studied the layout view and performed **post-layout simulation** of these circuits using **Cadence** software

Tunes2Notes | Detection of notes from audio *(Apr-Jul 2021)*
Institute Technical Summer Project 2021 | Institute Technical Council | IIT Bombay
- Developed an algorithm that synthesises the **music sheet** of an instrumental song from its **audio file**
- Implemented a **web based GUI** for the program using **Flask** (Python), **HTML**, and **CSS**
- Applied and **K-Means Clustering** to detect with **93% accuracy** high energy points from **spectrogram**

POSITIONS OF RESPONSIBILITY

Department Head, Educational Outreach | *NSS IIT Bombay* *(Jun 2022-Present)*
*National Service Scheme is the largest student volunteer body in IITB, serving **1 million+** people nationwide*

Leadership	• Leading a **2-tier** team (**11** Activity Associates & **80+** volunteers) for educational upliftment • Strategizing & managing Flare competitions (Social fest of NSS, IITB) | **22,000+** schools • Impacting **350+** students by re-initiating offline volunteering in **6** initiatives and **3** NGOs
Initiatives	• Designing portal for academic content impacting **125k+** followers of OLI (YouTube Channel) • Obtained a **7x increase** in number of kids impacted by restructuring Muskaan and Prayog • Initiated a survey of **1000+** non-academic staff on campus for Adult Literacy Programme • Formulated a PoA to reach **500+** NGOs and **100k+** students across India through OLI

Activity Associate, Educational Outreach | *NSS IIT Bombay* *(Jun 2021-May 2022)*
- Spearheaded OLI (YouTube channel with **12M+** views) & started creation of academic content for class 11
- Led **50+** volunteers to coordinate **1500+** hours of community service across 5 initiatives in 2 semesters
- Attracted participation of **10+** NGOs by orchestrating Abhinay (social fest for NGO kids) competitions

Coordinator | Media and Publicity | *Mood Indigo, IIT Bombay* *(May-Dec 2021)*
- Ideated social media campaigns on MI's pages (**310k+ likes** on Facebook, **53k+ followers** on Instagram)
- Executed **5+ pan-India** publicity campaigns to increase participation in MI's College Connect Program

EXTRACURRICULAR

Technical	• Completing courses on **Game Theory** and **Big Data Handling** in Learner's Space
Cultural	• Awarded **Grade 'A'** in drawing examinations conducted by the Govt. of Maharashtra • **Gold** Award from **50+** countries in the Queen's Commonwealth Essay Competition • **Runner-up** in the creative writing competition by Literati, IITB under Freshiezza
Social	• Volunteered **80+** hours under initiative Ummeed of Educational Outreach, NSS IITB • Volunteered in the **plantation drive** organised by Green Campus, NSS IITB
Blogs	• **Panelist** for article 'Lost Insti Culture' published in **Insight's Freshers Newsletter** • Co-authored **two** blogs for Jigyasa (NSS IIT Bombay's blog page with **85k+** hits)
Others	• Created thumbnails for **25+** videos & edited **15+** videos for the OLI YouTube Channel