



Anay Arora
Electrical Engineering
Indian Institute of Technology Bombay

22B3939
B.Tech.
Gender: Male
DOB: 25/03/2004

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2026	

Pursuing a Minor in the Centre for Machine Intelligence and Data Science

SCHOLASTIC ACHIEVEMENTS

- Awarded **branch change** to Electrical Engineering BTech for **academic excellence** in the first year ('23)
- Achieved **Department Rank 15** out of 120+ students in Electrical Engineering BTech programme ('24)
- Achieved **All India Rank 712** in JEE Advanced 2022 out of **0.16 million** candidates ('22)
- Achieved **All India Rank 789** in the Kishore Vaigyanik Protsahan Yojana Exam (KVPY), SX ('22)

RESEARCH EXPERIENCE

Generating Limit Order Book from order messages | *Research Project* (Apr'24- Jun'24)

Guide: Prof. Vivek Rajvanshi, Finance and Control, IIM Calcutta

- Analyzed **high-frequency** trading strategies and their **frontrunning** of non-HFTs using order book data
- Converted **order book** data into a **trade book** and separated trades using the **Lee-Ready algorithm** to identify the liquidity-providing and liquidity-removing sides of trades for **net marketable buying**
- Utilized net marketable buying to create **portfolio sorts**, and plotted cumulative HFT and non-HFT standardized net marketable buying each second after the sort to observe HFT influence on non-HFTs

KEY PROJECTS

Options Pricing Models and their Accuracies | *Finsearch* (Jul'23- Sep'23)

Finance Club, IIT Bombay

- Conducted an in-depth study of options pricing models, including the **Monte Carlo simulation**, the **Black-Scholes model**, and the **Binomial model**, differentiating their methodologies and principles
- Engineered a robust **Python implementation** of the Black-Scholes model for precise option valuation, leveraging current data extracted from the Nifty 50 index which was **filtered and cleaned**

Business Analysis Project | *SOM-101 Course Project* (Apr'23)

Guide: Prof. Ashish Pandey, Shailesh J. Mehta School of Management, IIT Bombay

- Conducted strategic analysis of Amazon, using a **GE 3x3 matrix** to categorize its subsidiaries, and evaluated its generic strategy, with an emphasis on either cost leadership or product differentiation
- Analyzed Amazon's **organizational structure**, deducing a **customer-centric** divisional approach

Technical Indicators in Python | *Self Project* (May'23)

- Engineered technical indicators with Python, including **Moving Averages**, **Bollinger Bands**, and **RSI**
- Analysed Netflix stock, using custom technical indicators, and **visualized the findings** using matplotlib

POSITION OF RESPONSIBILITY

Department Academic Mentor | *Student Mentorship Programme* (May'24 - Present)

- Selected from a pool of **170+** candidates based on interviews and peer reviews to mentor sophomores
- Providing **mentorship and guidance** to **12** sophomores, assisting them in making informed decisions regarding their academic pursuits and extracurricular activities and helping them navigate their curriculum
- Contributing actively to the **Resources and Outreach** subgroup by collecting course reviews

EXTRACURRICULAR ACTIVITIES

- Assumed a pivotal role within VFP (Voice for Purpose) under NSS(National Service Scheme) by crafting audiobooks, **enhancing educational accessibility** and inclusivity for visually impaired individuals('23)
- Constructed educative assignments for 6th-grade students when volunteering at LCCWA under NSS ('23)
- Distinguished as the **6th-ranked player** in the Scrabble General Championship(GC) qualifiers ('23)
- Spearheaded marketing efforts as an organizer for Impulse, Electrical Engineering department's fest, **showcasing effective promotional strategies and increasing event visibility** ('22)