

Pursuing a **Minor Degree in Management** from **SJM School of Management**, IIT Bombay

Scholastic Achievements

- Obtained **99.69** percentile in **JEE MAINS** conducted by NTA among **1.1 million** candidates ('21)
- Obtained **98.21** percentile in **JEE ADVANCED** out of **150,000+** candidates ('21)
- Completed an intensive online **FINANCIAL MARKETS** course by **YALE UNIVERSITY**, acquiring valuable insights into investment strategies, risk management, and market analysis ('23)

Internships and Professional Experience

INTERNSHIP | SANTA FE ASSOCIATES INDIA PVT. LTD. (Jul'22 - Jul'23)

- Worked with the organization for a total period of 60 days under the '**Holidays Internship Program**'
- During the internship, I had the opportunity to explore and gain exposure to diverse areas that included **Corporate Finance, Financial Planning and HR.**

PROJECT EXECUTIVE | Systematic Wires Pvt. Ltd, Mumbai (May'23 - Jul'23)

- Conducted extensive research on over **30+** different grades of carbon steel, encompassing **5+** distinct processes from raw wire to value-added finished products
- Specialized in optimizing the **pickling of steel and shot-blasting of wire rods**, implementing innovative techniques and conducting experiments to enhance **overall efficiency**
- Developed Excel sheets to meticulously track pickling **dip timings, maintain stock reports, and work-in-process records**, streamlining information accessibility and facilitating data-driven decision-making

Position of Responsibility

Class Representative | MEMS Department, MMA Council (Sep'22 - Current)

- Catered to the academic and non-academic needs of 135+ batchmates, ensuring personalized support and assistance.
- Established effective communication channels between professors and students, fostering seamless information exchange.
- Facilitated inclusive discussions among classmates, gauging diverse perspectives to contribute to decision-making processes.

Department Academic Mentor(D-AMP) | MEMS department, IIT Bombay (May'23 - Current)

- Part of a 35-member team selected from 79 applicants based on a stringent interview and peer reviews
- Mentoring 6 sophomores from the MEMS Department on a one-to-one basis on various aspects of their life
- Part of the Information and Outreach subgroup in the D-AMP council in charge of information dissemination pertaining to key academic policies and changes that impact 300+ undergraduates from the MEMS department.

Key Projects

Option Pricing Models | FinSearch, Finance Club, IIT Bombay (July'23-Present)

- Researched options and their pricing models, the **sensitivity of options (Greeks)**, and strategies for options trading and tracked options price and movement of Stock indices like **Nifty50 and Bank Nifty**
- Explored the **Black Scholes, Binomial Tree Model & Monte Carlo Simulation** using NumPy and Pandas for predicting European and American Options

Mechanical Failures in Airplanes | MM203 Course Project | Guide: Prof. Aparna Singh (Apr'23)

- Led a **team of 10** in a collaborative coursework project with 13 other teams, presenting innovative research on **14 topics**
- Analyzed a comprehensive sample of **200+** aircrashes spanning **87 years** to identify crash types and investigate mechanical failures, their manifestations, and root causes.
- Conducted detailed case studies of **El Al Cargo 1862 and JAL 123**, examining failed components and the mechanisms behind the crashes, yielding valuable insights into aircrash investigations

Modern Stock Trading | Summer of Science, Math and Physics Club (May'23- July'23)

- Leveraged advanced **technical indicators** and sophisticated data-driven strategies to achieve exceptional optimization of **stock portfolio** performance in modern stock trading analysis
- Effectively applied cutting-edge **machine learning techniques for valuable data-backed insights**, resulting in improved trading efficiency and enhanced decision-making in dynamic and fast-paced market conditions

Technical Skills

Software's	Microsoft Office, ProwessIQ, RStudio, SolidWorks
Languages	C++, MATLAB, L ^A T _E X, Python

Extra-Curricular Activities

- Participated in finale of **International Science and Creativity Olympiad'18** organised by **INTELLIFY, IIT Delhi**
- Qualified Phase 1 and participated in the Phase 2 of **Techkriti Open School Championship 2018** organised by Techkriti held at **IIT Kanpur**
- Presented research work on **Firm Competitiveness** in **GLOGIFT-22** management conference at LMTSM, Chandigarh
- Basic proficiency in **French**, having studied the language for three years during school and continuing to expand knowledge
- Represented hostel and bagged **1st** position in **Street Play** General Championship