

Muskan Jain Chemical Engineering Indian Institute of Technology Bombay 19D170016 B.Tech.

Gender: Female DOB: 1/3/2001

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2023	

Pursuing a Minor Degree in Computer Science and Engineering

SCHOLASTIC ACHIEVEMENTS

- Among the top **9**% students awarded change of branch for showcasing exceptional academic performance ('20)
- Secured 99.7 percentile in JEE (Joint Entrance Examination) Mains, 2019 amongst 0.9 million+ candidates ('19)
- Awarded National Top 1% out of 45000 candidates in National Standard Examination in Chemistry (NSEC)

PROFESSIONAL EXPERIENCE

Technology Consulting Intern | Ernst and Young Global Limited

(May'21-Jul'21)

('18)

Worked on 3 client facing projects for 4 major companies focusing on compliance digitization and operational efficiency

- Curated the scope of compliance digitization for a major firm, by profiling the available audit workflow management tools
- Developed IoT based solution, to aid high scale industrial manufacturing operations, leading to 20% higher product count
- Analysed 10+ fraud risk areas for a Fintech major, resulting in advancement of an automated collection optimization tool
- Customized a cloud-based Regulatory Compliance tool, to address data protection and privacy regulation issues in Nigeria

Web Developer | Dass Scientific Research Labs Pvt. Ltd.

(Dec'20-Jan'21)

A start-up engaged in simplifying advanced mathematical concepts and promoting them globally

- Developed a user-friendly online bridge game website with optimised checkout pages, to increase the customer purchases
- Enhanced player experience by creating an upscale dashboard to auto-update tournament scores using exported XML files

POSITIONS OF RESPONSIBILITY

Institute Internship Coordinator | Institute Placement Team, IIT Bombay

(Jun'20-Present)

Part of 24-member team entrusted with streamlining the internship process as a liaison for 2000+ students and 300+ recruiters

- Establishing new relations with executives across 200+ firms in Analytics, Finance, Consult, Management and FMCG sectors
- Coordinating with 300+ Universities over the globe to procure opportunities to increase International Research exposure
- Targeting a 20% y-o-y increase in internship opportunities by analysing old statistics, targeted contacting and data-mining
- Organizing institute-wide pre-internship talks, tests, Interview sessions, Group Discussions and Resume-Making sessions
- Developed a series of Aptitude and Coding tests at the institute level, aiding the pre-interview preparation of the students

Institute Academic Coordinator | EnPoWER, Undergraduate Academic Council, IIT Bombay

(May'20-May'21)

Selected among **12** out of **100+ applicants**, responsible for promoting research among **4500+** undergraduates

- Executed iSURP a UG research program offering 150+ projects(100% y-o-y increase) to 600+ students and 75+ professors
- Organised Virtual Research symposium in collaboration with NTU, Singapore with 60+ participants in 7 engineering fields
- Hosted ENTHUSE, the Freshmen Research Orientation with a panel of 16 IIT Bombay professors and 750+ undergraduates

Sports Representative | National Cadet Corps | IIT Bombay

(Sep'19-Jun'20)

- Organised Sports GC, Intercollege Sports Competitions, with 300+ participants, achieving 100% y-o-y increase in activities
- Executed weekly sports sessions with 8 different sports activities for 150+ students while dealing with professional coaches

KEY PROJECTS

Algorithmic Trading | FinSearch | Finance Club, IIT Bombay

(Jun'21-Jul'21)

- Developed a Python-based Pair trading algorithm, to identify and trade pair of similar stocks in a market neutral strategy
- Backtested the algorithm in the Indian financial market, using real-time stock cases, with an average profit margin of 4-6%
- Scrutinized **trading systems** like mean reversion, volatility-based delta hedging, calendar spread & momentum portfolios

Movie Recommendation System | Course Project | Guide: Prof. Abir De

(Mar'21-May'21

- Created a predictive model, to make web content more personalised, using item-based collaborative filtering in python
- Implemented KNN Algorithm to classify data points using item-feature similarity, returning the top K nearest neighbours
- Optimised the model using Mini-batch Gradient Descent algorithm, to get top 10 predictions achieving 90% test accuracy

EXTRA-CURRICULAR ACTIVITIES				
Certifications	Data Analysis using Excel, by Microsoft	• Investor Bootcamp, 2021 by 365 Careers		
	 Basic Financial Markets, by Yale University 	Python for finance, by 365 Careers		
Technical Skills	Languages: C++, Python, MATLAB, SQL, R, HTML, CSS Softwares: PowerBI, MS Office, LaTeX, AutoCAD			
	Frameworks and Libraries: Matplotlib, Pandas, NumPy, Seaborn, SciPy, Tkinter, Beautiful Soup, Astropy			
Sports	 1st in intercollege Badminton tournament 	Led the winning team in intercollege Volleyball match		
	 Completed year long training as cadet in NCC 	Represented hostel in Crossy GC (3.3 km in 18 mins)		
Social	• Counselled 50+ school going children as a part of Abhyuday's, IIT Bombay Career Counselling Campaign			
	Structured a Digital Literacy Program with Womenite, Delhi to guide 1000+ underprivileged students			