



Jainesh Manish Mehta
Electrical Engineering
Indian Institute of Technology Bombay

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B.Tech.
Gender: Male
DOB: 24/04/2003

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2025	

Pursuing a **Minor degree in Management** at Shailesh J. Mehta School of Management

SCHOLASTIC ACHIEVEMENTS

- **Department Rank 3** in IIT Bombay Electrical Engineering department among **210+** students
- Conferred with **4 AP grades** for exceptional performance in courses of various disciplines awarded to top **2%** students
- Secured an **AIR of 299** in **JEE Advanced** and an **AIR of 132** in **JEE Main** out of **1.2 Million+** candidates
- Awarded the highly prestigious Kishore Vaigyanik Protsahan Yojana Fellowship (**KVPY**) by **IISC Bangalore**

WORK EXPERIENCE

National University of Singapore | Research Intern (May'23 - Jul'23)

Guide : Prof. Rahul Jain, Principal Investigator, Centre for Quantum Technologies (CQT), NUS

- Benchmarked quantum cryptographic methods with classical ones to evaluate latest advancements in the field
- Investigated the **IND-CPA security** of **3** distinct schemes used in **QHE** including Teleportation (**TP**), Auxiliary (**AUX**) and Einstein Podolsky Roden (**EPR**) scheme to evaluate polynomial sized circuits with T-gate complexity
- Addressed talks discussing key findings from **3+** research papers exploring recent advancements in Quantum HE

POSITIONS OF RESPONSIBILITY

Institute Student Mentor | Student Mentorship Program (Jun'23 - Present)

Part of a handpicked team of 143 mentors aimed at providing counsel to upcoming first year students

- One of only **14** third-year students selected as an ISMP mentor among the entire batch of **1300+** students
- Selected through a **rigorous process** comprising of statement of purpose, interviews and peer reviews by batchmates

Department Academic Mentor | Department of Electrical Engineering (Jun'23 - Present)

Selected to be a part of a 37 member team through extensive interviews and peer reviews out of 150+ applicants

- **Guiding 8 sophomores** in their academic, personal and co-curricular pursuits by providing credible counsel
- Enhanced the content of **DAMP blogs** by collating academic information and internship experiences from seniors

Alumni Secretary | Electrical Engineering Students Association (Oct'22 - Apr'23)

Responsible for maintaining student-alumni relations for the Department of Electrical Engineering

- Connected **1500+** students to **50+** alumni through group discussions and talks aimed at providing career guidance
- Awarded **Organizational Special Mention** for notable contribution to dept, among **3** awardees from **1500** students

Events Manager | Impulse (Feb'23 - Mar'23)

Managed events and competitions for the department fest : Impulse | Footfall:1.5k+ | Budget: INR 0.5 Million

- Conceived a promotional event featuring the cast of **Rocket Boys**, driving increased fest publicity and attendance
- Anchored and ideated **Wired** competition with **200+** registrations, featuring engaging general department trivia

KEY PROJECTS

Options Pricing Model | Finance Club, IIT Bombay (Jun'23 - Present)

- Orchestrated a team of 4 to implement an advanced options pricing model using the **Black-Scholes** framework
- Implemented **Monte Carlo** simulation for complex market scenarios, greatly enhancing predictive capabilities

RISC Processor Design | Guide: Prof. Virendra Singh | Course project (Jan'23 -May'23)

- Implemented a **6 stage pipelined processor** to accommodate a total of **26** instructions of 3 types (R,I,J)
- Designed forwarding and branch prediction techniques that led to a **25%** increase in **processor throughput**

Quantum Machine Learning | Analytics club, IIT Bombay (Dec'22 - Jan'23)

- Analyzed the extent of quantum advantage exhibited by Quantum Machine Learning compared to classical ML
- Leveraged qiskit library in Python to analyze the computational time of the **Deutsch Jozsa algorithm**

EXTRACURRICULAR ACTIVITIES

Organizational Skills	<ul style="list-style-type: none">• Mentoring 330+ students for their project on quantum cryptography in Learner's Space ('23)• Mood Indigo coordinator: Interviewed TVF Pitchers; managed Insta handle (100k+ followers) ('22)• Selected as a Teaching Assistant for Physical Chemistry based on proficiency in the subject ('23)
Social	<ul style="list-style-type: none">• Mentored 150+ underprivileged students at Pragati Shikshan Sanstha via guest lectures ('23)• Completed a 10km marathon to promote fitness and greenery organized by Omega events ('23)
Sports	<ul style="list-style-type: none">• Badminton: Completed NSO at IITB, qualified for Pune Badminton Championship (PDMBA) ('21)• Football : Represented school in various tournaments, ranked 3rd in intra dept tourney(EESA)('22)
Certifications	<ul style="list-style-type: none">• Certified by Yale University on financial markets, learnt risk mitigation & trading strategies ('23)• Pursuing Consulting101 offered by career cell, IIT Bombay to achieve case study proficiency ('23)