



Aditya Mittal
2nd Year
Bachelor of Technology
Engineering Physics
Indian Institute of Technology, Delhi

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ACADEMIC DETAILS

(2024-Present)	B.Tech in Engineering Physics	Indian Institute of Technology Delhi	CGPA - 8.76/10
(2024)	Class 12th CBSE Board	Delhi Public School Vasant Kunj	95%
(2022)	Class 10th CBSE Board	Blue Bells Model School	97.1%

SCHOLASTIC ACHIEVEMENTS

- Achieved a top-tier academic standing with **Department Rank 2** in a department of about 60 people. (May 2025)
- Secured a rank in the top **0.2% in JEE Mains** out of **1.4 Million+** candidates nationwide. (May 2024)

PROJECTS

- Formula Style Electric Vehicle** (March 2025 - January 2026)
Azlr8r Formula Racing — Formula Student Team of IIT Delhi
 - Built a formula-style EV under strict budget, weight, and timeline constraints: navigated steep learning curves across unfamiliar tools and sub-systems, and used data-driven trade-off analysis to validate performance decisions under pressure.
 - Collaborated in a multidisciplinary team across mechanical, electrical, and autonomous sub-departments, coordinating across work-streams to meet project milestones.
- Realization of a Programmable Two-Qubit Quantum Processor | Prof. Bodhaditya Santra** February 2026
Term Paper — Applied Quantum Mechanics (PYL331), IIT Delhi
 - Independently studied and synthesized primary academic literature on quantum computing hardware; analyzed experimental performance data and evaluated error sources across competing qubit architectures.
- Demonstration of a Neutral Atom Controlled-NOT Quantum Gate | Prof. Bodhaditya Santra** April 2026
Term paper — Applied Quantum Mechanics (PYL331), IIT Delhi
 - Reviewed and analyzed the first experimental neutral-atom CNOT demonstration using Rydberg excitation and Rydberg blockade end-to-end, comparing two gate implementations across pulse design, fidelity outcomes, and error sources; presented findings in written and slide formats.

CERTIFICATIONS

- Winter Consulting** (Dec 2024 – Jan 2025)
Consulting and Analytics Club, IIT Guwahati
 - Completed a 4-week certification in consulting strategy, business analytics, and economics; coursework covered **Porter's Five Forces**, **MECE/issue trees**, **TAM/SAM/SOM**, **M&A & market entry cases**, **DCF modelling**, **unit economics (CAC/LTV)**, and financial markets fundamentals.

POSITIONS OF RESPONSIBILITY

- Coordinator, Economics and Finance Club, IITD** (April 2026 - Present)
 - Leading strategy and programming for a 200+ member club; setting semester roadmap, managing executive team of 8, and driving partnerships with finance professionals.
- Executive, Economics and Finance Club, IITD** (June 2025 - March 2026)
 - Curated and moderated 10+ panel discussions with senior professionals from **BlackRock**, **Goldman Sachs**, **IMC**, and leading VC firms; developed working understanding of investment frameworks, market sizing, and early-stage deal dynamics through direct engagement.
 - Developed written communications, event briefs, and post-event summaries circulated to the student community.

EXTRA CURRICULAR ACTIVITIES

- Second Runner up, HackKnight, BlackRock**
 - Built an autonomous portfolio management agent on a \$10M simulated book; traded 50 synthetic assets across 5 sectors using a multi-signal alpha engine, with LLM-integrated forecasts, under hard cardinality (≤ 30 holdings) and turnover ($\leq 30\%$) constraints.
 - Engineered event-driven corporate action logic with differentiated responses to earnings surprises, M&A rumours, regulatory fines, and CEO departures; achieved a Sharpe ratio of 1.33 and 3.3% PnL, placing 3rd among IIT Delhi competing teams.

TECHNICAL SKILLS

- Programming & Data Analysis:** Python (NumPy, Pandas, Matplotlib, SciPy), MATLAB, C++.
- Research & Writing:** Academic literature review, technical report writing, structured data synthesis, presentation design.
- Tools and Software:** FreeCAD, SolidWorks, Ansys

KEY COURSES TAKEN

- Introduction to Programming using python (COL100), Calculus (MTL100), Linear Algebra and Differential Equations (MTL101), Digital Electronics (ELL201), Quantum mechanics (PYL122), Applied Quantum Mechanics (PYL331), Mathematical Physics I (PYL121), Mathematical Physics II (PYL206), Optics Lab I(PYP111), Optics Lab II(PYP212)