

VATSAL JAIN



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Year	Degree / Board	Institute	GPA / Marks(%)
	B.Tech in Electrical Engineering	Indian Institute of Technology Delhi	8.81
2022	CBSE	Blue Heaven Vidyalaya, Jaipur	96.4
2020	CBSE	St. Anselm's Sr. Sec. School, Jaipur	96.4

SCHOLASTIC ACHIEVEMENTS

- IIT Delhi Semester Merit Award: Awarded for ranking among the top 7% of students academically in the I and II semesters
- Competitive Programming: Reached a rating of 1975 (Candidate Master) on Codeforces and 2099 (5-Star) on CodeChef
- Mathemania 2023: Secured 8th position in the final round among 150+ participating teams, organized by IIT Kanpur
- Minor in Computer Science: Currently pursuing minor degree with focus on programming, algorithms, and software skills
- JEE Advanced 2022: Secured All India Rank 503 in the JEE Advanced exam amongst more than 160,000 candidates
- JEE Main 2022: Secured All India Rank 378 and 99.96 percentile in JEE Main exam amongst 1.2 million candidates
- NSEP 2022: Recognized as a State Topper (top 1%) in the prestigious National Standard Examination in Physics (NSEP)
- KVPY 2021 & 2022: Awarded the prestigious KVPY (Kishore Vaigyanik Protsahan Yojana) Fellowship by DST, Govt. of India
 IOQM 2021: Qualified International Olympiad Qualifier Mathematics, among the top 300 students in India selected for INMO
- NTSE 2020: Recipient of the prestigious NTSE (National Talent Search Examination) Scholarship by NCERT, Govt. of India

INTERNSHIPS

• Atlassian, Bangalore | Data Analytics and Platform Engineering Intern

(May 2025 - Jul 2025)

- Enabled flow descriptor renaming in Atlassian's internal data pipelines by modifying validation logic in the repository, preserving orchestration integrity, historical run data, and ensuring long-term workflow consistency across 100+ teams
- Built end-to-end observability into **Python-based DBT jobs** by integrating **StatsD** with **SignalFX** via custom **Databricks init scripts**, now actively adopted by the Growth KYC team and available for use across **50+ Data Engineering teams**
- University of New South Wales (UNSW), Sydney | Research Intern

(May 2024 - Jul 2024)

- Multi-View Sketch to 3D conversions using Gaussian Splatting | Computer Vision | Prof. Rohitash Chandra, UNSW Analyzed and comprehended existing codebases for text to 3D generation using Gaussian Splatting and multi-view sketch
- guided text to 3D generation using the **NeRF network** and **Python libraries** to extract parameters from **silhouette sketch** Implemented a custom **Sketch Loss function** by minimizing error, preserving finer detail and **improved output quality**

PROJECTS

• Al Agent for Strategic Gameplay in Havannah (Prof. Rohan Paul)

(Mar 2025)

- Designed an AI agent using Monte Carlo Tree Search (MCTS), achieving a win rate of 100% against random agents
 Implemented various heuristics and strategies to identify bridges and assign more weight to certain moves based on heuristics
- Stock Market Simulation and Tracking Application (Prof. Huzur Saran)

(Jul 2024

- Built a trading site using Flask, integrating 100+ NSE stocks (via Jugaad Data) with real-time Bokeh candlestick plots
- Executed strategy execution using parallel threads, achieving 4x improvement in latency over sequential execution
- Designed secure authentication with password hashing and portfolio management using SQLite with SQLAIchemy ORM
- Search Engine and QnA Tool Application (Prof. Subodh Sharma)

(Nov 2023)

- Developed a search engine using the KMP algorithm, matching patterns in a 10,000+ document corpus with 100% accuracy
- Delivering high-quality responses to queries with the help of API models ChatGPT, Hugging Face using Prompt Engineering
- Designing an Efficient Rank function to get the top K most relevant paragraph from the corpus in response to a given query
- Database Manager of Intricate Banking System in C++ (Prof. Rahul Garg)

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- Developed a Bank Data Class to maintain transactions between Bank and Individuals in O(1) amortized time complexity
- Made an efficient **Double Hash Function** for optimization with a **minimal collision rate** of hash values in an array of size 10⁶

TECHNICAL SKILLS

- Programming Languages: Python, C++, C, Verilog, Bash, MySQL, MATLAB, OCTAVE, LaTeX, HTML, CSS, JavaScript
- Libraries and Tools: PyTorch, TensorFlow, Django, NumPy, Pandas, Matplotlib, OpenCV, Git, Autodesk, Jupyter Notebook

EXTRA CURRICULAR ACTIVITIES

- · Jane Street Mystery Planet: 1st Prize, a 4-round event combining complex puzzles and a trading strategy challenge
- WorldQuant International Quant Championship 2024: Achieved Gold Level and ranked 1207th out of 76,000+ teams
- Finalist in Lockout, a 1v1 competitive coding tournament with 250+ participants, held during Tryst, the Tech Fest of IIT Delhi
- Secured 2nd Runner-Up position in Quant-Decoded, a Coding + Quant competition with 150+ participants at IIT Delhi
- Convenor of Inter-Hostel Technical General Championship and Technical Secretary, secured 2nd place among all hostels
- Technical Coordinator for Tryst, IIT Delhi's Tech Fest, managing and scaling the festival website used by 1000+ participants
- Disclaimer: All the information on this page is entered by student.



VATSAL JAIN



IIT COURSE				
Degree	Institute	CGPA	Dept. Rank	
B.Tech in Electrical Engineering	Indian Institute of Technology Delhi	8.81	21	

COURSES DONE

Linear Algebra & Diffe. Equa., Data Structures And Algorithms, Probability & Stochastic Pro., Machine Intelligence & Learning, Computer Architecture, Discrete Mathematical Structur, Analysis & Design Of Algorithms

QUALIFYING EXAM

• Joint Entrance Examination (JEE) Advanced Rank: 503 (GE)

INTERNSHIPS

• Software Engineering Intern, Atlassian (2025)

EXTRA CURRICULAR ACTIVITIES

- Tech GC Hostel Convener, Inter Hostel TechGC (2024-25)
- · Finalist, Lockout
- Runner Up, Code Decode 2.0
- Runner Up, Code Decode 1.0
- Second Runner Up, Pravritti- Code Crusaders
- 2nd Runner Up, Quant-Decoded
- Member, Tech Committee Member
- Organiser, House Day (January, 2000 January, 2000)

POSITIONS OF RESPONSIBILITY

- Technical Coordinator, TRYST'25, CAIC (January, 2024 January, 2025)
- Technical Secretary, Jwalamukhi, BHM (June, 2024 May, 2025)
- Activity Head, RendezvousX, BRCA (June, 2023 May, 2024)
- BECON Executive, eDC, OTH (June, 2023 May, 2024)
- Hult Marketing executive, Enactus, OTH (June, 2023 May, 2024)