

Manit Arora

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Aspiring Software Engineer building quantitative and backend systems

EDUCATION

Netaji Subhas University of Technology (NSUT), Delhi

B.Tech in Computer Science and Engineering (Internet of Things) | Aug 2025 – Expected 2029

- CGPA: 9.182 (Semester 1-2)
- Relevant Coursework: Data Structures and Algorithms, Discrete Mathematics, Probability and Statistics, Numerical Methods, Computer Programming (Python), Digital Logic Design, Differential & Integral Calculus.

XII (CBSE) | DAV Pushpanjali Enclave, Delhi, 2025 | Score: 91% Overall (95.3% in Physics, Chemistry, and Mathematics)

X (CBSE) | DAV Pushpanjali Enclave, Delhi, 2023 | Score: 92.3% (Including Artificial Intelligence as an additional subject)

PROFESSIONAL EXPERIENCE & EXTRACURRICULARS

Enactus NSUT | Tech Member (Frontend Developer) (Nov 2025 – Present)

- Designed and developed responsive timeline and footer UI components for the [Aspire Fest](#) website.
- Led the frontend redesign of the Enactus NSUT official website's [Team Page](#), enhancing visual hierarchy and user experience.

Freelance Educator | Mathematics Instructor (March 2026 – Present)

- Instructed students remotely in Precalculus, leveraging digital teaching tools including a Wacom setup and Microsoft OneNote.
- Cultivated analytical problem-solving skills and mathematical foundations in students.

PROJECTS

[AURA Quant Pipeline](#) | Python, FastAPI, Vanilla JS (May 2026 – Present)

- Built an end-to-end quantitative trading pipeline for the NIFTY universe, engineering log-return-based alpha signals (RS, risk-adjusted RS, beta, rolling regression) with multi-factor technical and statistical screening.
- Designed dynamic portfolio construction with alpha-weighted, beta-adjusted allocations and ATR-based stop-loss risk management; trained a logistic regression model to estimate trade win probabilities.
- Deployed an asynchronous FastAPI backend with custom 60-minute TTL cache and a Vanilla JS/CSS frontend to deliver near-real-time stock scans and quantitative insights.

[Competitive Programming Automation Pipeline](#) | Python, GitHub Actions, JavaScript, REST APIs (May 2026 – Present)

- Designed and deployed a serverless, three-stage data pipeline (Ingestion, Processing, Presentation) to automatically archive and categorize optimized C++ solutions by rating.
- Built a Python-based CI/CD automation bot that orchestrates repository state changes, dynamically queries Codeforces REST API to fetch meta data and builds a structured database index.
- Created a high-performance vanilla JavaScript frontend to dynamically render localized problem metrics and progression tracking, completely decoupled from the data ingestion layer.

SKILLS & TECHNOLOGIES

Programming Languages: Python, C++, JavaScript, SQL

Backend Architecture: FastAPI, RESTful APIs, PostgreSQL, SQLAlchemy, JWT.

Quantitative & Data Science: Pandas, NumPy, Risk Metrics.

Tools & Practices: Git, GitHub, Machine Learning fundamentals.