

# Shreyansh Jain

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## Education

### Vellore Institute of Technology

B.Tech in Computer Science with specialization in AI & ML — CGPA: 8.5

Bhopal, India

Aug. 2022 – May 2026

## Skills

**Programming Languages:** C++, Python, R, SQL, TypeScript

**Frameworks & Libraries:** PostgreSQL, NumPy, Pandas, Matplotlib, SciPy, Statsmodels, Scikit-learn, XGBoost, OpenCV

**Tools & Technologies:** Data Structures & Algorithms, Git/GitHub, MS Excel, Tableau, REST APIs, NSE API, VS Code

**Quantitative Skills:** Time-Series Forecasting, Monte Carlo Simulation, Options Greeks & IV, Derivatives Pricing

**Certifications:** NISM Series VIII, Financial Markets- Yale University, Options 101- Akuna Capital, Pricing Options with Mathematical Models- Caltech, GEN AI Using IBM Watsonx, Google Data Analytics Professional Certificate

## Experience

### Escorts Kubota, Faridabad

Jun 2025

Data Analytics Trainee

- Analyzed demographic and regional tractor sales data across 50,000+ records spanning 27 regions and 13 tractor models to identify purchasing behavior trends and market performance variations.
- Applied exploratory data analysis and comparative trend evaluation to uncover demand patterns, reducing manual data review effort by 40% and enabling data-driven regional sales prioritization strategies.
- Python (Pandas, NumPy), Microsoft Excel (Pivot Tables, Data Transformation), Statistical Analysis.

### IgniteU Learning, Noida

Mar 2025 - Apr 2025

Quantitative Research and Strategy Intern

- Analyzed training effectiveness data of 2,000+ students across 25+ technical skills to identify curriculum gaps and improve student-to-job readiness alignment.
- Built predictive models using regression, clustering, and time-series analysis to forecast student performance and course completion rates, improving effectiveness of training by 30% and reducing manual evaluation time by 50%.
- Automated ETL pipelines using Python (Pandas, NumPy, Scikit-learn, Statsmodels) to process training data, generate KPI dashboards, and deliver interactive Excel reports.

## Projects

### Real-Time Event Prediction Market | C++, LLM-Integration, WebSocket, PostgreSQL | GitHub

May 2025

- Developed real-time event prediction trading platform enabling users to trade on outcomes of global events, supported by an LLM-based market creation pipeline that detects trending topics and generates new event markets, thereby reducing manual event creation time by 90%.
- Implemented a dynamic pricing engine driven by market sentiment and incoming data, also allowing users to track positions and analyze portfolio performance.

### Options Pricing & Greeks Dashboard | NumPy, Pandas, Streamlit, NSE API, Plotly | GitHub

Jan 2025

- Built a real-time options pricing dashboard for NIFTY and BANKNIFTY contracts using live NSE option chain data, implementing the Black–Scholes model with Greeks calculation to enable options trading strategy analysis and risk management for retail traders..

### Portfolio VaR Simulation & Backtesting | NumPy, Pandas, SciPy, Matplotlib | GitHub

Aug 2024

- Developed quantitative risk management framework using Value-at-Risk (VaR) modeling for a diversified portfolio of NIFTY sector ETFs, applying Monte Carlo simulations on historical return distributions to estimate downside risk at 95% and 99% confidence levels.
- Backtested VaR forecasts using Kupiec's Proportion of Failures Test to evaluate model accuracy, calibrated window lengths, and validated whether the observed losses matched theoretical coverage rates.

## Achievements

- Competitive Programming:** Codeforces Rating- 1500+ (Specialist) and LeetCode Rating- 1750+ (Top 7% globally)
- DSA Proficiency:** Solved 1000+ problems across LeetCode, Codeforces, GFG, and Code360.
- Trading Performance:** Generated return of 97% in FY24 through systematic options strategies and market timing.

## Leadership

- Cultural Committee:** Core Team Member—Led planning and execution of "Advitya 2024" with 3000+ participants
- Chess Club:** Sports Coordinator—Organized 2 chess tournaments with 100+ participants; 1600+ rating on Lichess.