

# 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.