Divyam Samarwal

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Education

Netaji Subhas University of Technology, New Delhi — Aug 2024 – May 2028
Bachelor of Technology, Mathematics and Computing — **GPA:** 7.09/10

- Relevant Coursework: Probability & Statistics, Applied Linear Algebra, Design & Analysis of Algorithms, Optimization Techniques, Machine Learning, Database Management Systems, Theory of Automata & Formal Languages

Experience

WorldQuant BRAIN — Remote
Quantitative Research Consultant — Aug 2025 – Present

- Achieved the Gold Level in the Global Alpha Challenge with a score of 12,225+, ranking in the top global percentile in 50+ countries.
- Developed and backtested 20+ alpha factors in price-volume data; applied cross-sectional neutralization and factor decay analysis to achieve an annualized Sharpe ratio of 1.4+ with controlled systematic risk.

Projects

Paper Trading Dashboard   *Next.js, TypeScript, WebSockets, SQLite, PostgreSQL* — Jan 2026
github.com/DivyamSamarwal/paper-trading

- Built a real-time paper trading engine with WebSocket-driven live price feeds, order execution, portfolio tracking, and a global leaderboard across trading competitions.
- Engineered a price simulation engine using Gaussian random walk with dynamic market impact and mean reversion at 1,000ms ticks; implemented a hybrid SQLite/PostgreSQL persistence layer with WAL mode for zero-change local-to-production deployment.

Autobot   *Python, discord.py, asyncio, Flask* — Jun 2021
techsaurus.vercel.app

- Developed a Discord bot serving 50+ communities with moderation, translation, and entertainment commands; asynchronous architecture with Flask for 24/7 uptime.
- Integrated real-time weather, social media, and anime database APIs for dynamic content delivery.

Technical Skills

Programming Languages: Python · TypeScript · JavaScript · C++ · Rust · SQL · HTML/CSS
Libraries and Tools: Pandas · NumPy · Next.js · WebSockets · PostgreSQL · SQLite · React · Flask · Git · MATLAB · LaTeX

Honors and Awards

WorldQuant Global Alpha Challenge – Gold Level, 12,225+ points, top global percentile — 2025
Trinity College London, Plectrum Guitar Grade 1 – 97/100, Distinction — 2019