

# Rishabh Gupta

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in rishabhgupta1997

## SUMMARY

Quant trader and trading systems architect with 5+ years of experience building and trading algorithmic strategies in Indian capital markets (NSE, BSE, MCX). Co-founded and led the end-to-end technology build of a production-grade, event-driven trading platform. Uniquely combine deep technical ownership across the full stack with hands-on strategy development and live trading experience.

## EXPERIENCE

### IkiQuant

**Remote**

*Co-Founder & CTO*

*September 2025 - Present*

- Spearheaded end-to-end architecture, system design, and development of a fully event-driven algorithmic trading platform for backtesting, paper trading, and live execution across NSE, BSE, and MCX.
- Led and managed the complete technology team with deep hands-on ownership across every layer of the codebase.
- Built the platform at per-second granularity, overseeing live data ingestion via websockets and large-scale historical tick data management over multiple years, evaluating and adopting appropriate database technologies.
- Designed and implemented a parallelized, high-performance backtesting engine enabling rapid strategy iteration and simulation at scale.
- Architected an Order Management System (OMS) integrating multiple Indian brokers across varied REST and WebSocket APIs.
- Established a Risk Management System (RMS) for real-time position monitoring and automated kill switches to safeguard against failures and risk breaches.
- Built a strategy development framework enabling a team of quant traders to independently develop and deploy their own strategies on the platform.
- Owned the reporting and reconciliation infrastructure covering daily trading activity, PnL tracking, and operational summaries.

### Blackrose

**Gurugram**

*Quant Trader and Head of Trading Infra*

*January 2025 - August 2025*

- Developed and traded quantitative strategies for the Indian Index Options market.
- Led a phased refactoring of the trading infrastructure codebase from a monolithic architecture to a modular, maintainable structure.
- Introduced software engineering best practices including Git-based version control, staging and recovery server environments, and structured onboarding documentation to improve team productivity.

### Self-Employed

**Bengaluru**

*Quant Trader*

*January 2023 - December 2024*

- Built an independent algo trading framework for backtesting and live trading in Indian capital markets, deployed on AWS.
- Worked with multiple Indian broker APIs and websockets for real-time data and order execution across NSE, BSE, and MCX.
- Applied statistical analysis to develop and refine profitable trading strategies with minimized drawdowns.

## Flipkart

Data Scientist

Bengaluru

August 2020 - December 2022

- **E-invoicing Automation:** Developed a machine learning model using Document AI to automate data extraction from vendor invoices across 100+ unique formats, reducing average payment TAT from 8 days to 1 day.
- **Price Anomaly Detection:** Designed and deployed a statistical model to identify anomalies in product listing prices caused by promotional offers, enhancing pricing accuracy and preventing revenue loss.
- **Comment Moderation for Social Commerce:** Applied NLP techniques to moderate comments in real-time during live streams, ensuring a safe user experience in Flipkart's Social Commerce domain.

## LinkedIn

Summer Intern

Bengaluru

May 2019 - July 2019

- Analyzed LinkedIn's connection network to identify overlapping communities and key member features influencing connections, contributing to MTech thesis as part of the AI team.

## IIT Bombay

Summer Intern

Mumbai

May 2017 - July 2017

- Contributed to the "ekShiksha Project" by creating a generalized framework allowing teachers to design game-based curricula for self-paced student learning.
- Developed web-based games to be incorporated into the framework, enhancing the e-learning environment and boosting student engagement.

## EDUCATION

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### Indian Institute of Science, Bangalore

M.Tech (CSA) guide: Prof. Chiranjib Bhattacharyya

CGPA: 9.0/10

Bengaluru

2018 - 2020

### Guru Ghasidas Vishwavidyalaya (Central University)

B.Tech (Computer Science and Engineering) guide: Prof. Nishant Behar

CGPA: 8.64/10

Bilaspur

2014 - 2018

## SKILLS

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- **Languages & Frameworks:** Python, Django, Flask, Sanic, JavaScript, HTML/CSS
- **Trading & Quant:** Algorithmic trading, backtesting, options strategies, statistical analysis, risk management
- **Data & Databases:** PostgreSQL, TimescaleDB, Redis, QuestDB, Clickhouse, SQLite, AWS S3, large-scale tick data
- **Infrastructure:** AWS, WebSockets, REST APIs, multiprocessing, event-driven systems
- **ML & Data Science:** scikit-learn, PyTorch, NLP, time-series analysis, Document AI

## PROJECTS

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### Streaming Indicators

Open Source Python Package

- Developed an open-source Python package to compute various technical indicators for financial markets on streaming data. Code: [https://github.com/mr-easy/streaming\\_indicators](https://github.com/mr-easy/streaming_indicators)

### Overlapping Community Detection and Network Analysis

MTech Project

May 2019 - July 2020

- Identified overlapping communities in networks using stochastic variational inference on a generative model (assortative-Mixed Membership Stochastic Blockmodel).
- Compared multiple methods for community detection and analyzed networks to identify core and bridging nodes.

### **Badminton Stroke Classification**

*Data Analytics Course Project*

*Nov 2019 - Dec 2019*

- Developed an end-to-end ML project to classify badminton strokes using accelerometer and gyroscope data from a wrist-mounted device.
- Employed classical ML techniques (Random Forest, Gradient Boosting, SVM) and deep learning models (LSTM, 1D CNN) for time-series data analysis.

## **COURSES**

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**IISc:** Practical Data Science, Machine Learning, Deep Learning, Optimization, Data Analytics, Stochastic Models, Computational Geometry, Linear Algebra and Probability, Algorithms, System Security. **Online:** Probabilistic Graphical Models (Coursera), Deep Learning (IITM), AWS Cloud Essentials (Coursera).

## **ACHIEVEMENTS AND EXTRA-CURRICULAR**

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- Secured **All India Rank - 2** in GATE 2018 (Computer Science) with a perfect score of 1000.
- Member of the Sponsorship Team for CSA, IISc Open Day 2020.
- Placement Coordinator for the CSA IISc 2018-20 batch.
- Selected for ACM-ICPC Asia Onsite Regionals (Chennai) in 2017.
- Technical Adviser for coding events in Equilibrio 2017 (GGU TechFest); organized four events and managed a team of 20 members.
- Secured top positions in robotics competitions at various technical institutes.