Rishabh Gupta

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rishabhgupta1997

EXPERIENCE

Self-Employed **Bengaluru**
Quant Trader *January 2023 - Present*

- Developed a comprehensive algo trading framework for backtesting, paper testing, and live trading in Indian capital markets using Python, Flask, Redis, Sanic, and deployed on AWS.
- Managed large-scale data collection, storage, and utilized it for backtest simulations to optimize trading strategies.
- Integrated and worked with various Indian broker APIs and websockets for real-time data and order execution in NSE and MCX.
- Applied statistical analysis to identify and implement profitable trading strategies with minimized drawdowns.

Flipkart **Bengaluru**
Data Scientist *August 2020 - December 2022*

- E-invoicing Automation: Developed and implemented a machine learning model using Document AI to automate data extraction from vendor invoices across 100+ unique formats. This innovation reduced the average vendor payment turnaround time (TAT) from 8 days to 1 day, significantly improving operational efficiency by eliminating manual data extraction.
- Price Anomaly Detection: Designed and deployed a robust statistical model to identify anomalies in product listing prices, caused by various promotional offers. This model enhanced pricing accuracy and prevented revenue loss due to erroneous pricing.
- Comment Moderation for Social Commerce: Applied natural language processing (NLP) techniques to moderate comments in real-time during live streams, ensuring a safe and engaging user experience in Flipkart's Social Commerce domain.

LinkedIn **Bengaluru**
Summer Intern *May 2019 - July 2019*

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

IIT Bombay **Mumbai**
Summer Intern *May 2017 - July 2017*

- Contributed to the "ekShiksha Project" by creating a generalized framework that allows teachers to design game-based curricula, enabling students to learn at their own pace through interactive game elements.
- Developed web-based games to be incorporated into the framework, enhancing the e-learning environment and boosting student engagement.

EDUCATION

Indian Institute of Science, Bangalore **Bengaluru**
M.Tech (CSA) guide: Prof. Chiranjib Bhattacharyya *2018 - 2020*
CGPA: 9.0/10

Guru Ghasidas Vishwavidyalaya (Central University) **Bilaspur**
B.Tech (Computer Science and Engineering) guide: Prof. Nishant Behar *2014 - 2018*
CGPA: 8.64/10

PROJECTS

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

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.

Graph Representation Learning
Machine Learning Course Project *March 2019 - April 2019*
- Explored methods for graph node embedding, such as DeepWalk and Node2Vec.
- Conducted experiments on real-world datasets for link prediction and label classification using node embeddings.

Badminton Stroke Classification
Data Analytics Course Project *Nov 2019 - Dec 2019*
- Developed an end-to-end machine learning 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.

Feature Selection Using Genetic Algorithm
BTech Final Year Project *Jan 2018 - May 2018*
- Applied a genetic algorithm to optimize feature selection in datasets, enhancing classifier accuracy while reducing the number of features.

COURSES

- **IISc:** Practical Data Science, Machine Learning, Deep Learning, Computational Methods of Optimization, Data Analytics, Stochastic Models and Applications, Bioinformatics, Computational Geometry and Topology, Graphics and Visualization, Linear Algebra and Probability, Design and Analysis of Algorithms, Theory and Practice of System Security.
- **Online:** Probabilistic Graphical Models Specialization (Coursera), Deep Learning (IITM), Statistic (Udacity), Blockchain Basics (Coursera), AWS Cloud Technical Essentials (Coursera)

ACHIEVEMENTS AND EXTRA-CURRICULAR

- 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.

REFERENCES LIST

- Prof. Chiranjib Bhattacharyya (IISc Bangalore)