

Abhishek Gogna

Quant and Algo Research Analyst

✉ abhishekgogna36@gmail.com ☎ +91 9310524189

📍 H No. 9, Rohini Sec-23 Pocket 4A, Delhi-110085 🔗 pyabhi114.github.io/portfolio/

PROFESSIONAL SUMMARY:

Dedicated Quant and Algo Research Analyst with 10+ years of experience in computer applications, data science, and financial analysis. Specialized in quantitative analysis and mathematical modeling for financial markets, with a proven track record in options pricing, volume analysis, and market volatility prediction. Currently pursuing a Master's in Advanced Studies in Data Science, AI, and Machine Learning from BITS Pilani Digital. Skilled in Python, C++, Java, and statistical analysis, with a strong passion for research and innovation in data-driven methodologies and algorithmic trading.

PROFESSIONAL EXPERIENCE:

Trade Logics Pvt. Ltd.

02/2025 – Present

Quantitative Analyst / Algo Trading Developer

- Developing, testing, and optimizing algorithmic trading strategies.
 - Responsible for automation workflows, backtesting frameworks, and multi-asset performance analytics.
 - Integrating data-driven decision systems across multiple instruments and timeframes.
- Working on a lot of technical Indicator to build signal confluence or multiple confirmations
- almost now have python script for more then top 10 brokers in India to run algo for different clients

Delta Option LLP, Noida

05/2021 – 12/2024

Quant and Algo Research Analyst

- Developed machine learning models for options pricing and market volatility prediction.
- Collaborated closely with my team on research for derivatives and quantitative analysis.
- Applied statistical analysis and advanced algorithms to optimize financial trading strategies.
- Utilized Python and related libraries for deep data analysis and predictive modeling.
- Build Algo and backtesting for Nifty and Sensex Options Delta Neutral Strategy

Super Tools, Delhi

05/2014 – 04/2021

Business Analyst

- Conducted in-depth business analysis to streamline operations and drive profitability.
- Implemented data-driven decision-making processes for various business units.

- Developed business solutions using advanced statistical models to forecast trends and improve efficiency.

EDUCATION:		
BITS Pilani (BITS Digital)		2027
<i>Masters in Artificial Intelligence and Machine Learning</i>		
(Ongoing, Expected 2027)		
Amity University		2011 – 2014
<i>MCA</i>		
<i>-72%</i>		
Guru Nanak Dev University		2008 – 2011
<i>BCA</i>		
• 68%		
IIT Guwahati		
<i>Advanced Data Science, Machine Learning & AI Coursework</i>		

KEY SKILLS:		
Programming Languages	Data Science s Machine Learning Tools	Machine Learning Techniques
C++, Java, HTML, SQL, C, Python	Sklearn, Matplotlib, Seaborn, Plotly, Tableau, TensorFlow, Pytorch.	Linear Regression, Logistic Regression, Decision Tree, SVM, Random Forest, K-means Clustering, Gradient Descent.
Statistical Analysis	Business Tools	Software Development
Standard Deviation, Profit Maximization Strategies	MS Office, MS Excel, Photoshop, Corel, Tally, BusyWin	VB, FoxPro, React, NodeJS
Financial Analysis Tools	Other	
Quantitative Data Analysis, Predictive Modelling	Networking, Software Troubleshooting, Data Management	

LANGUAGES:	
English	Hindi

INTERESTS & RESEARCH FOCUS:	
Quantitative Research and Algorithmic Trading Financial Data Science and Predictive Modeling	
Applied Machine Learning and AI in Finance	
Continuous Research in Market Microstructure and Systematic Strategies	

REAL PROJECTS I HAVE WORKED ON DURING MY CAREER:

Automated Options Trading System (Kotak Neo & Zerodha APIs)

Options Strike Adjustment Logic

Data Lake for Tick-by-Tick Market Data

High-Frequency Backtesting Mechanism (1-Second Accuracy)

NIFTY Short-Term Forecasting Model

NIFTY Live Chart Web App (Real-Time Visualization)

Scrip Master & Data Synchronization System

Historical Data Downloader & Feather Viewer

Machine Learning for Market Prediction

Mean Reversion Quantitative Model

Financial Data Analysis Toolkit

Educational Project - Python in Finance

Research Collaboration with Dr. Anup Raj (PhD in Derivatives)

For More Detail check my github page: [🔗 pyabhi114.github.io/portfolio/](https://pyabhi114.github.io/portfolio/)

CERTIFICATIONS:

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|---|---|---|
| • Machine Learning for Trading - New York Institute of Finance (Coursera) | • Python 1, 2, 3 – Advanced Python for Data Science | • Golang, React, NodeJS, R Programming, Java Programming – InnoBuzz |
| • Certified Internet Security Expert (CISE) | • Diploma in AutoCAD – CAAD Centre | |

OVERALL PROFILE SUMMARY:

I have engineered a complete ecosystem of trading, research, and data infrastructure, including:

Data Layer: Tick-by-tick data lake, scrip master synchronization, historical data management

Analysis Layer: Statistical forecasting, standard deviation analytics, ML-based predictions

Execution Layer: Automated trading through broker APIs

Research Layer: Delta-neutral backtesting and quantitative modeling

Visualization Layer: Real-time web dashboards for market monitoring

Education Layer: Python and Finance training for learners

I hereby declare that the above information is true to the best of my knowledge.

(Abhishek Gogna)