

# KARTIKAY GUPTA

Nationality: India

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## Education / Academic positions

- Assistant Professor in Dept. of Maths & Computing at IIT (ISM) Dhanbad.
- July 2015 - June 2021. Degree of **Doctor of Philosophy** from department of mathematics, **IIT Delhi** defended on 14 April 2021. The topic of research being machine learning, data science and time series analysis. Thesis title: **Decision making using financial time series data.**
- July 2010 – May 2015. Degree of **Master of Science (Integrated)** in **Mathematics & Scientific Computing** from department of mathematics & statistics, **IIT Kanpur**. CGPA: **8.1/10**.

## Journal Publications

- Gupta K., Chatterjee N.; “Selecting stock pairs for pairs trading while incorporating lead-lag relationship”, *Physica A: Statistical Mechanics and Applications*, Elsevier, Volume 551, 2020, 124103, DOI: 10.1016/j.physa.2019.124103.
- Gupta K., Chatterjee N.; “Forecasting through motifs discovered by Genetic Algorithms”, *IETE Technical Review*, 2018, Volume 36, Issue 3, pp-253-264, DOI: 10.1080/02564602.2018.1450653
- Gupta K., Aayushi K., Chatterjee N., Pradeep J., Deepak J.; “Rule based classification of Neurodegenerative diseases using data driven gate features”, *Health and Technology*, Springer, August 2019, Issue-9:4, Page-547:560, DOI: 10.1007/s12553-018-0274-y
- Gupta K., Chatterjee N.; “Stocks recommendation from large datasets using important company and economic indicators” *Asia Pacific Financial Markets*, Springer, 2021. DOI: 10.1007/s10690-021-09341-9

## Conference Proceedings

- Gupta K., Chatterjee N.; Financial Time Series clustering; in *Proceedings of Information and Communication Technology for Intelligent Systems, ICTIS*, Volume-2, Springer, Ahmedabad, India, March 25-26, 2017
- Gupta K., Aayushi K., Chatterjee N., Deepak J.; Automatic Classification of Parkinson’s disease Based on Severity Estimation, to appear in *Proceedings of International Conference on Data Science, Machine Learning & Applications, ICDSMLA*, Springer, Hyderabad, India, 29-30 March 2019

## Volunteer Academic Service

- Reviewer for the journal Computational Economics, Springer