



# AMIT KUMAR JHA

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## EDUCATION:

### Indian Institute of Technology (IIT) Madras, Chennai, IN

Doctor of Philosophy( Ph.D.) in Financial Economics

06/2025

GPA: 8.0/10

**Relevant Courses:** Mathematical Finance, Computational Finance, Financial Economics, Financial Econometrics, Econometrics - I & II, Data Analysis for Research, Stochastic Calculus, Financial Risk Management ( FRM ), Money Banking & Financial Markets

### Indian Institute of Technology (IIT) Jodhpur, Rajasthan, IN

Master of Science( MS) in Digital Humanities

04/2022

GPA: 8.8/10

**Minor in Computational Economics**

GPA: 9.4/10

**Relevant Courses:** International Finance, Machine Learning , Machine Learning for Economics, Data Analytics using R & Python, Introductory Economics , Introduction to Data Science , Data Visualization, Financial Analytics, Game Theory for Business Decisions, Machine Learning for Business, Blockchain for Business, Financial Derivatives, Management of Banks, Data Structures & Algorithms, Social Media Analytics, Digital Economics

## SKILLS:

**Programming Languages:** Python(Intermediate), R(Intermediate), C++(Basics), SQL(Basics), Kotlin(Basics)

**Business Analytical Tools:** Microsoft Office Suites( Office, Powerpoint, Excel, Project), JIRA, Confluence, Tableau, Google Data Studio, PowerBI

**Utility & Cloud Tools:** Pycaret, Google Colab, GitLab, AWS, Dash, Dtale, AutoML, Dataprep, Pyfolio, PyPortfioOpt

**Econometric Softwares:** SPSS, Eviews, STATA, SAS, Bloomberg

## CERTIFICATIONS:

**Corporate Finance Institute:** Fundamentals Of Corporate Finance, Introduction to Capital Market ,Math for Capital Market ,Economics of Capital Market, Excel For Financial Analysts,

**WallStreetMojo:** Introduction to Investment Banking, Equity Valuation, Introduction to Bonds & Fixed Income trading

**Great Learning :** Financial Risk Analytics, Statistics for Data Science, Python for Data Science , Python for Finance

## EXPERIENCE:

### Data Scientist-I, Elint Data Private Limited, Bengaluru, IN, [Code](#)

04/2022-Present

- Project: PSG , Kenya for creating automated data dashboard and implementation of AI for alert system
- Project: Resume-parser using NLP ,created a resume parser where you can upload folders of CV/resumes and can get relevant information. Made life easier for HRs in organization
- Working on product building for US based clients which Deep learning based students performance prediction
- Created a dashboard for Kenya based client for different solar power plants
- Created Time series forecasting model using ARIMA and exponential smoothing for Pharma based industry

**Tech-Stack:** Django · Flask · Python (Programming Language) · Pandas (Software)· Time Series Analysis · Deep Learning

### Data Scientist, ZIGRAM India Private Limited, Gurugram, IN, [Code](#)

01/2022-03/2022

- Completed several real time industrial projects related to anti-money laundering data assets using Pytrends package.
- Gained training & hands on experience on data analysis and machine learning.

**Tech-Stack:** Python (Programming Language) · Pandas (Software)· MS Excel · SQL

### Research Intern in Finance, Indian Institute of Technology(IIT) Roorkee, IN, [Offer Letter](#)

02/2022-04/2022

- Studied different time series Models and its application in Financial Economics and Asset management.
- Gained some knowledge of AR,MA,ARIMA,ARCH,GARCH , Value at Risk(VaR) Models.
- Developed a strong and unique research question in Financial Econometrics titled as " Essay in Portfolio optimization".

**Tech-Stack:** R (Programming Language) · Eviews(Software)· MS Excel · SPSS

- Worked on a research project titled” Building a Classification Model for product recommendation” under the guidance of Prof. Biplab Bhattacharjee.
- We deployed all ML models & LDA for topic modeling and achieved 88 % accuracy for XG-Boost.
- Also learned how to use NLP, Text mining, and R in this case & gained some experience in research paper writing.

**Tech-Stack:** R (Programming Language) · Python(Programming Language)· MS Excel

## PROJECTS/CONFERENCES:

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### MAJOR

- Worked on research project titled as **"Impact of digitization on bank's performance and competition"** | [Paper](#)
- Presented above mentioned project paper in International conference at Woxsen University, Hyderabad | [Certificate](#)
- Paper titled as **"Sentiment Analysis using ensemble of machine learning and lexicon based model"** has been accept at IIM Bangalore
- Currently working on research project titled as **"Real Estate Risk Exposure to Private & Public Sector Banks in India"** at IIT Madras

### MINOR

- Completed a project in economics titled as **"Effect of Inflation Rates on the Stock Price : Evidence from Indian Market"** | [Paper](#)
- Myntra reviews analysis & recommendation model building using LDA & tree regressors in machine learning | [Code](#)
- Completed an online data analytics project in association with **KPMG** on sales analysis of superstore | [Certificate](#)
- **Estimated Value at Risk (VaR) by historical as well as the variance-covariance method for the portfolio of Indian stocks using Python** | [Code](#)
- Project on the Impact of the sentiment of financial news on crypto as well as the stock market in financial analytics course | [Code](#)
- **Historical analysis of the risk in forex market (USD/INR) using Python** | [Code](#)
- **Portfolio Optimization for list of NSE listed companies using Python** | [Code](#)
- **Fundamental Analysis of companies accounting statements( Balance, Income & Cash Flow) using Python** | [Code](#)
- **Merton Credit Model Market using Python package financepy** | [Code](#)

## SCORES:

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- **Graduate Aptitude Test in Engineering(GATE) :** Secured All India Rank 189 in National Level GATE Examination in Economics Subject | [Score Card](#)
- **LinkedIn Skill Assessment Test :** Secured 99% in skill assessment test for R programming language and was amongst 5% of 710K+ students.
- **LinkedIn Skill Assessment Test :** Secured 94% in skill assessment test for Python programming language and was amongst 5% of 4M+ students.

## POSITIONS OF RESPONSIBILITY:

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### Economics & Finance Club | Indian Institute of Technology (IIT), Jodhpur

07/2021-03/2022

- Served as founding secretary of the club in student activity council (General Body in IITJ)
- Managed all Economics & Finance related event management,talks , career guidance etc.

### Dining Hall | Indian Institute of Technology (IIT) Jodhpur

07/2021-03/2022

- Worked as dining services captain in student activity council (General Body in IITJ)
- Managed all mess related tasks & hygiene issues received from students

### Prometeo | Indian Institute of Technology (IIT) Jodhpur

02/2022-03/2022

- Exhibition head and pitched top research institutions for stalls like DRDO, ISRO, IIT Delhi , IIT Kharagpur
- Managed all exhibition related Funds, works,contacting corporates, & research institutes to show their innovation.

### EconSoc | Indian Institute of Technology (IIT) Madras

07/2022-Present

- Economics society head and pitched top economics institutions for workshops/webinars/conferences like DSE, IGIDR, JNU, IISc.
- Managed all events related Funds, works,contacting corporates, & research institutes to show their papers.

## HOBBIES:

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- **Coding:** Solved over 1000+ problems on different coding practice platforms like leetcode/hackerrank/kaggle
- **Cycling:** Won zonal level prize in cycling marathon in college
- **Writing:** Wrote over 15+ articles on medium and gained over 300+ followers within one month with over 90% engagement rate.
- **Educational Content Creator :** Established a YouTube channel which is dedicated to JAM Physics students and gained 42K+ subscribers in 1 Year | [Link](#)