

Prateek Jaiswal

3rd Year Undergraduate
Department of Economic Sciences

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2018 - Present	B.S. in Economic Sciences	Indian Institute of Technology, Kanpur	7.43/10
2018	CBSE(XII)	Nalanda Academy, Kota	89.6%
2016	CBSE(X)	Little Flower Sr. Secondary School, GIDA Gorakhpur	10/10

Scholastic Achievements

- Among the top **3.4%** in **JEE Advanced 2018** of the 2.3 Lakh shortlisted candidates.
- Among the top **0.8%** of the 10.5 Lakh applicants in **JEE Mains 2018** .

Key Projects

- **Media Expressed Negative Tone and Predictability of Firm Level Stock Returns** (June'20- ongoing)
Mentor: Prof. Suman Saurabh, Department of Industrial and Management Engineering,IIT Kanpur.
 - **Web Scraped** news articles for top 50 firms comprising the NIFTY50 index of the National Stock Exchange (NSE) from prominent business-news websites.
 - Performed **tone analysis** per day using the Loughran and McDonald Sentiment Word Lists.
 - Currently, building a **VAR model** to derive the effect of media-expressed negative tone on the daily stock returns.
 - Will be building a **momentum based sentiment trading strategy** and an **optimized portfolio**.
- **Improvement in Employee Retention through Machine learning Techniques** (Feb'20- June'20)
Mentor: Prof. Somesh Kumar Mathur, Department of Economic Sciences,IIT Kanpur.
 - Developed a predictive model for employee tenure prediction using machine learning techniques such as **SVR (Support Vector Regression)**,**Random Forests**, **Linear Regression** and **Ridge Regression** algorithms.
 - Built Employee Value for the company and Resource Consumption functions using **K-means Clustering** algorithm .
 - Designed **Retention Technique Selection Model** to find the optimal attribute vector i.e the optimal weights corresponding to the Employee Tenure Prediction,Employee Value and Resource Consumption parameters so as to optimise these parameters and hence improving the Employees Retention.
 - Obtained a very significant increase of **174.17%** in the average Expected tenure of the employees,decrease of **-23.97%** in the Employee Resource Consumption and an increase of **23.97%** in the Employee Value.

Technical Skills

- **Programming Languages:** Python,C, HTML, L^AT_EX, MATLAB,R
- **Software and Libraries:** Pandas, Numpy , Matplotlib, Seaborn, sklearn, Excel,NLTK,Beautifulsoup

Positions of Responsibility

- **Coordinator(Head), Students' Opinion Society, IITK** (2020-ongoing)
 - Leading a team of **32** members,managing a **Facebook** group of **2k** members and a budget of **1L** to promote **Public Policy**.
 - Published articles on **policy analysis** and **economic news** and Initiated "**The communique**", an international affair magazine published by the members on a monthly basis.
 - Worked in organising **Policy Research** with an envision to present a review of **various policy frameworks through the lens of Technology and scientific research** by organizing **workshops**, **session** and **2 day hackathon**.
 - Successfully managed 2 editions of **Policy conclave** having personalities like **Ambassador of Argentina to India** and South Asia Head of **Public Policy, Mastercard** in an effort to take Policy Conclave to an international level.
 - Collaborated with **Moolya Foundation** to organise a webinar on making a career in Public Policy.
- **Company Coordinator, Students' Placement Office** (Aug'19-Dec'19)
 - Managed the logistics of **shortlisting tests**, **presentations and interviews** for the recruiting process conducted by companies in a team of **30** members.
 - Handled recruitment process of companies like **PWC Diac**, **Amazon** ,**HSBC**,**Indus Insights** etc.

Relevant Courses

Fundamentals of Computing Applied Probability and Statistics Machine Learning, Coursera,Stanford university Neural Networks and Deep Learning,Coursera,deeplearning.ai Real Analysis-Calculus Financial Markets and Investment Strategy specialisation , Coursera , ISB	Linear algebra and Differential Equations Microeconomics Macroeconomics Trading Strategies specialisation, Coursera , ISB Corporate Finance Essentials, Coursera , IESE Business School Applied Data Science with Python, Coursera , University of Michigan
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Extra-Curricular Activities

- Participated and won in a national level **Policy-making competition** ; paper published and released by the organisers.
- Taught village kids, took surveys of village households about their livelihood,created awareness about cleanliness by being a volunteer of **National Service Scheme(NSS)** and **Unnat Bharat Abhiyan(UBA)**.
- Participated in Opinions event in **Galaxy'20**, the intra-IITK Cultural Championship.