

# Gaurav Raj

2nd Year Undergraduate, Economics

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## Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2020 - Present	B.S.	Indian Institute of Technology, Kanpur	<b>7.80/10</b>
2020	IPE(XII)	Narayana Jr. College, Hyderabad	98%
2018	CBSE(X)	St. Paul's School, Sasaram	97.2%

## Scholastic Achievements

- Secured a spot among the top **2.5%** students in **JEE Advanced** 2020 among the 0.15 million candidates.
- Secured an aggregate **99.7 percentile** in **JEE Mains** 2020 among the 1.5 Million candidates.

## Projects

**Research Project : MCDM Techniques (Prof. RN Sengupta, IME, IIT Kanpur)** *(Mar'22 - present)*

- Analyzed and interpreted various Multi-Criteria Decision Making methods under the guidance of the professor.
- Identified and analysed useful new MCDM methods and used mathematical ideas as Rough Sets to uncover the same.
- Documented detailed technical write-ups for the **PAPRIKA**, **DRSA** and **UTA** methods, including pseudo codes.

**Project Mentor : IPO Analysis using Forward Looking Statements** (Finance Club, IIT Kanpur) *(May'22 - present)*

- Mentored 42 students to analyse and grade an IPO using **fundamental analysis** as well as **Forward Looking Statements**.
- Educated mentees about Fundamental Ratios as **P/E**, **Debt**, and **Current ratio** and using them to grade an IPO.
- Used the Naive Bayesian ML Classifier theory to analyse a firm's **DRHP** based on tones and grade the IPO based on the two.

**Introduction to Deep Learning and its Applications** (Stamatics, IIT Kanpur) *(May'22 - present)*

- Implemented a perceptron using Python and later, a **CNN** to classify the Cifar-10 dataset using Keras and TensorFlow.
- Implemented a **Recurrent Neural Network** to classify the MNIST dataset with a **0.97** accuracy in the final iteration.
- Read papers on the **mask-RNN algorithm** and implemented it using TensorFlow and Keras.

**Financial Markets Experience Program** (Finlatics) *(Jan'22 - present)*

- Conducted **equity research** on the Banking and Technology Sector using **Porter's Five Force Analysis**.
- Analysed two companies from each of these sectors using **SWOT Analysis** and prepared reports on the same.
- Created, managed and maintained a real-time virtual stock portfolio on BSE 500 listed companies by evaluating companies using fundamental ratios, and was scored **75.8** on a 100 point system in terms of comparison to the BSE 500 index.

## Position Of Responsibility

**Coordinator, Book Club, IIT Kanpur** *(May'22-Present)*

- Led a two-tiered team with 22 members to maintain the Students' Gymkhana library and promote reading in campus.
- Expanded the club's audience by almost **200** new members as well as increased the online presence by over **50%**.
- Organized Author sessions and Book Fairs with an audience well over **300** members and turnover of over **50k** INR.
- Managed an online presence of **6k** followers and acquired a budget of over **25k** INR to expose students to quality literature.

**Secretary, Finance and Analytics Club, IIT Kanpur** *(Jul'21-Present)*

- Co-organized **Non-core Weekend**, the flagship event of the Club with over **250+** participants from colleges all over India.
- Boosted online presence by managing social media handles and designed engaging posts to increase financial literacy in campus.
- Part of the 10th **Inter IIT Tech meet** contingent that won a **silver** overall, where I helped develop a Trading Strategy

**Senior Executive, Techkriti, IIT Kanpur** *(Jul'21-Present)*

- Came up with ideas to publicize and maximize the reach of Techkriti, Asia's largest technological and entrepreneurial fest.
- Helped in co-organizing TOSC, an annual all India competition for grades 6-12th.

## Technical Skills

**Programming :** C++, Python **Web :** HTML, CSS **Tools :** L<sup>A</sup>T<sub>E</sub>X, Excel, Illustrator, GitHub **Libraries :** Numpy, Pandas

## Relevant Courses

Probability and Statistics	Fundamentals of Computing	Mathematical Economics
Microeconomics	Macroeconomics	Linear Algebra and ODEs
Managerial Economics	Real Analysis	Machine Learning

## Miscellaneous

- **Executive member** at **IIT Business Buzz**, a pan IIT magazine which is an attempt to showcase the existing business ecosystem of the technical institutes and nurture it further.
- Volunteered to work in the **Students' Placement Office**, IIT Kanpur (2021), a cell that ensured placement of over 940 students in the placement season.
- **Runner up** in **FinDiscussion** by **Finance and Analytics Club**, IIT Kanpur, where we presented and analysed **Japan's debt crisis**.