

Shitij Singh

4th Year Undergraduate
Department of Economic Sciences

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2017 - Present	B.S.	Indian Institute of Technology, Kanpur	8.04/10
2017	HSC(Maharashtra)(XII)	Thakur Vidya Mandir, Mumbai	93.08%
2015	ICSE(X)	Thakur Public School, Mumbai	96%

Scholastic Achievements

- Secured **All India Rank 2677** in **JEE Advanced 2017** among the 1.6 Lakh shortlisted candidates.
- Secured **All India Rank 2912** in **JEE Mains 2017** from over 12 lakh candidates.
- Cleared the prestigious exam of KVPY **twice** with an **All India Rank 51** (SA Category).

Work Experience

- **Intern at Abheri Fintech Private Ltd.** *(Jun'20-Aug'20)*
 - Built a **Quantitative model** for Nifty Index.
 - Worked on **Machine Learning Algorithms** in Capital Markets.
 - Tracked **Macroeconomic Factors** both domestically and globally to search for lead-lag relationships among various Global Macroeconomic factors.
- **Interned at Di2i ltd. Singapore** *(May'18-July'18)*
 - Worked in the field of **Blockchain & Analytics**.
 - Worked on an **Article/Paper** summarizing all the different blockchains in action at that time and how to fray into the field of blockchain for a beginner.
 - Worked on a presentation on **Hedge fund strategies**.

Key Projects

- **Market Macro-structure & High Frequency Finance** *(UGP 2019-20-Even Sem)*
Mentor: Prof. Wasim Ahmed, Department of Economic Sciences.
 - Implemented a robust model in **Python** to solve for intra-day and overnight returns for Exchange rate fluctuations among USD-CNY/JPY/INR/EUR.
 - Worked on data provided by **Thomson Reuters**.
 - Analyzed the **five factor model** for Exchange Rates using Macroeconomic principles.
- **Correlation between Crime & Economics** *(Course Project-MBA 633A)*
Mentor: Prof. Shankar Prawesh & Prof. Arvind Verma, Department of IME.
 - Worked on a paper detailing how crime is affected by various economic policies undertaken in India.
 - Worked on data provided by **NCRB**.
 - Used **Panel Data Regression** for Karnataka for the period of 2000-2010 for establishing the aforementioned correlation.
- **ECONS Project: Exchange Rates and their determination** *(2018-19-Even Sem)*
Mentor: Utkarsh Barsaiyan, Department of Economic Sciences.
 - Used **Machine Learning** to implement a simple model for determination of Exchange Rates.
 - Used **Time Series Model** to implement a simple model for determination of Exchange Rates.
 - Analyzed the **various factors** affecting Exchange Rates using Macroeconomic principles.
- **ACA Project: Implementation of DApps on Blockchain** *(2017-18-Even Sem)*
Mentor: Shikhar Mahajan, Department of Computer and Science Engineering.
 - Read about relevant material related to the course, including **White Paper of Bitcoin, Ethereum, etc.**
 - Implemented a **Simple DApp (Pet Shop)** on The Blockchain Network.
- **ESC Project Track: Statistical Toolbox Implemented in Python** *(Course Project-ESC101A)*
Mentor: Anuj Nagpal, Department of Computer Science and Engineering.
 - Implemented a **Simple GUI Interface** to Interact with the User.
 - The toolbox can be used to solve **Daily Statistical Problems** by providing Graphing & Modelling Solutions.

Technical Skills

- **Programming Languages:** R, C, C++, HTML, L^AT_EX, MATLAB, Python, Java.
- **Software and Libraries:** GNU Octave, Git, MS-Office.

Positions of Responsibility

- **Finance Convener, Gymkhana Students' Senate** (Jun'19-July'19 (Acting), Mar'20-present)
 - Felicitated in smooth functioning of Students' Gymkhana via fund allocations to various cells and clubs of the council.
 - Managed a budget of over **80 lakhs** in Students' Gymkhana.
 - Overseen a budget of over **2 crores** combined for various festivals (Udghosh, Antaragni, Techkriti) of IITK.
- **DUGC Student Nominee** (Jun'19-present)
 - Acted as a bridge between the students and the faculty convener in matters pertaining to academics.
- **Senator Y17** (2017-2018, Jan'20-present)
 - Acted as a bridge between the student community and the executives participating in decision making for the student body of **over 8000**.
- **Student Guide, Counselling Service Team** (2018-19)
 - Guided and mentored **6 freshmen** students in acclimatizing to the Environment of the Institute.
 - Coordinated with the Counselling Service and helped in the organisation of **Orientation Programme 2018**.

Relevant Courses

Financial Economics**	Applied Probability and Statistics
Econometrics I	Economic Growth Theory and Practice
Microeconomics II	Monetary Policy
Mathematical Economics	Macroeconomics I
Data Structures and Algorithms	Microeconomics I
Marketing Research	Development Economics
Financial Econometrics	Econometrics II

(***Exceptional Performance*)

Extra-Curricular Activities

- Quizzing:
 - Selected among 104 Candidates in **ET Campus Stars** Class of 2019-20 from over 49,000 Participants.
 - Won **1st Prize** at the State Level HSC School Meet in Sci-Tech Quiz.
 - Won **1st Prize** at All India ICSE School Meet in Gizmo Geeks.
- Sports:
 - Won 1st Prize at the State Level ICSE Athletics Meet; 100m, 200m.
 - Participated in Fresher's Inferno 2017 in Squash, Shot-Put, Hockey, Football.
- Social:
 - Part of ECONS Student Society.