

# AMAN JAIN

Junior Year Undergraduate  
Indian Institute of Technology Kanpur

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## EDUCATION

Year	Degree	Institute	Performance
2019 - 2023	B.Tech Civil	Indian Institute of Technology Kanpur	7.6/10.0
2019	Class XII (CBSE)	DAV Public School, Kota	92.8%
2017	Class X (CBSE)	DAV Public School, Kota	10.0/10.0

## ACHIEVEMENTS

- Secured **All India Rank 3812** in **JEE Advanced 2019** among the 0.2 million shortlisted candidates
- Secured **All India Rank 8898** in **JEE Main 2019** among the 1.2 million aspirants
- Received **SURGE-IITK fellowship**, given to top 200 students among more than 2000 applicants across India in 2021

## WORK EXPERIENCE

**SURGE IIT Kanpur | Yoga Recommendation System** 🔗  
Research Intern, Supervisor Prof Veena Bansal

Jun 2021 – Aug 2021  
Remote

- Developed an **ML-Based Recommendation System** for yoga asanas based on benefits sought by the user
- Designed the **ER Diagram** and **Relation Schema** of the database and implemented it using **SQL**
- Created a website using **HTML**, **CSS** and **JavaScript** for the frontend and **Laravel** for the backend
- Integrated an **NLP Model** that predicts the **top 5 asanas** with an **accuracy of 87%** into the website

## PROJECTS

**Stock Price Prediction** 🔗  
Self Project

Mar 2021

- Developed an **LSTM Model** to forecast the stock prices of Big Tech companies for the following week
- Web Scraped stock price data using **Selenium** and **BeautifulSoup** and performed exploratory data analysis
- Utilized **ARIMA** for baseline predictions and improved them using **Deep Learning**, which reduced **RMSE by 30%**

**Model Zoo** 🔗  
Programming Club, IIT Kanpur

May 2021 – July 2021

- Studied **Deep Learning Models** and implemented them from scratch using **PyTorch** and **TensorFlow**
- Models include **ResNet**, **Inception** for Image Classification and **ESRGAN** for Super-Resolution

**Escaping The Caves** 🔗  
Course Project under Prof Manindra Agrawal

Jan 2021 - May 2021

- Decrypted **classical ciphers** such as **Substitution** and **Permutation Ciphers** using frequency analysis
- Designed **chosen plain-text attacks** on **modern cryptographic methods** such as **DES** and **EAEAE**

## TECHNICAL SKILLS

<b>Programming Languages</b>	Python, C++, C, JavaScript, PHP, SQL, HTML, CSS
<b>Frameworks and Libraries</b>	TensorFlow, PyTorch, Laravel, Pandas, Scikit-Learn, Matplotlib, Numpy
<b>Utilities</b>	Tableau, MySQL, BeautifulSoup, Selenium, Git, $\LaTeX$

## RELEVANT COURSEWORK

\*: ONLINE

- **Computer Science**: Data Structures & Algorithms (Ongoing), Modern Cryptology, Fundamentals of Computing
- **Mathematics**: Applied Probability & Statistics, Linear Algebra & ODE, Real Analysis & Calculus
- **Machine Learning**: Neural Networks and Deep Learning\*, Convolutional Neural Networks\*, Sequence Models\*

## POSITIONS OF RESPONSIBILITY

**Entrepreneurship Cell, IIT Kanpur** | Secretary

May 2020 - Apr 2021

- Assisted in the organization of **Entrepreneurial Extravaganza - India's biggest virtual event (8000+ footfall)**
- Co-organized the first edition of **Entrepreneurial Bootcamp** with the participation of over **500+ enthusiasts**

## EXTRACURRICULAR ACTIVITY

- Built an **ornithopter** in **Aeromodelling Club's** event in **Takneek'19**, the Intra-IITK Championship
- Participated in **Photography Club's** event in **Galaxy'20**, the Intra-IITK Media and Cultural Championship