

# AMAN JAIN

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## EDUCATION

<b>Indian Institute of Technology Kanpur</b> <i>B.Tech in Civil Engineering with a Minor in Industrial and Management Engineering - CPI: 8.0/10.0</i>	2023
<b>DAV Public School, Kota</b> <i>CBSE Class XII - Score: 92.8%</i>	2019
<b>DAV Public School, Kota</b> <i>CBSE Class X - CGPA: 10.0/10.0</i>	2017

## ACHIEVEMENTS

- Secured **AIR 3812** in JEE Advanced 2019 among the 0.2 million successful candidates in JEE Mains
- Secured **AIR 8898** in JEE Mains 2019 among the 1.2 million aspirants all over the country

## WORK EXPERIENCE

<b>SURGE IIT Kanpur   Yoga Recommendation System</b> 🌐 <i>Research Intern, Supervisor Prof Veena Bansal</i>	Jun'21 - Aug'21
<ul style="list-style-type: none"><li>• Developed an <b>ML-Based Recommendation System</b> for yoga asanas based on benefits sought by the user</li><li>• Designed the <b>ER Diagram</b> and <b>Relation Schema</b> of the database and implemented it using <b>SQL</b></li><li>• Created a website using <b>HTML</b>, <b>CSS</b> and <b>JavaScript</b> for the frontend and <b>Laravel</b> for the backend</li><li>• Integrated an <b>NLP Model</b> that predicts the top 5 yoga asanas out of 226 asanas with an <b>accuracy of 87%</b></li></ul>	

## PROJECTS

<b>Credit Card Fraud Detection</b>   Self Project 🌐	Jun'22 - July'22
<ul style="list-style-type: none"><li>• Developed a model to classify <b>fraud transactions</b> from an imbalanced dataset with <b>0.17%</b> fraud cases</li><li>• Employed algorithms like <b>Random Undersampling</b>, <b>SMOTE</b> and <b>ADASYN</b> to handle class imbalance</li><li>• Applied ML algorithms including <b>Logistic Regression</b>, <b>XGBoost</b> and <b>Decision Tree</b>, achieving a <b>recall of 90%</b></li></ul>	
<b>Stock Price Prediction</b>   Self Project 🌐	Feb'21 - Mar'21
<ul style="list-style-type: none"><li>• Developed an <b>LSTM Model</b> to forecast the stock prices of Big Tech companies for the subsequent week</li><li>• Web Scraped data using <b>Selenium WebDriver</b> and <b>BeautifulSoup</b> and performed exploratory data analysis</li><li>• Utilized <b>ARIMA</b> as a baseline and <b>reduced</b> the <b>RMSE</b> of predictions by <b>30%</b> using a <b>Deep Learning model</b></li></ul>	
<b>Model Zoo</b>   Programming Club, IIT Kanpur 🌐	May'21 - July'21
<ul style="list-style-type: none"><li>• Explored <b>Deep Learning Models</b> and implemented them from scratch using <b>PyTorch</b> and <b>TensorFlow</b></li><li>• Trained <b>ResNet-34</b>, <b>Inception-V1</b>, <b>Inception-V3</b> on CIFAR-10 dataset &amp; achieved <b>77%</b>, <b>85%</b> &amp; <b>83% accuracy</b></li></ul>	
<b>Escaping The Caves</b>   Course Project, Modern Cryptology 🌐	Jan'21 - May'21
<ul style="list-style-type: none"><li>• Decrypted classical ciphers such as <b>Substitution</b> and <b>Permutation Ciphers</b> using <b>frequency analysis</b></li><li>• Designed <b>chosen plain-text attacks</b> on <b>modern cryptographic methods</b> such as <b>6 round DES</b> and <b>EAEAE</b></li></ul>	

## TECHNICAL SKILLS

<b>Programming Languages</b>	C++, C, Python, JavaScript, PHP, SQL
<b>Frameworks and Libraries</b>	TensorFlow, PyTorch, Laravel, Pandas, Scikit-Learn, Matplotlib, Numpy
<b>Software and Utilities</b>	BeautifulSoup, Selenium WebDriver, Tableau, Git, L <sup>A</sup> T <sub>E</sub> X, HTML, CSS

## RELEVANT COURSEWORK

\*: ONLINE

- **Computer Science:** Data Structures and Algorithms, Modern Cryptology, Fundamentals of Computing
- **Mathematics:** Applied Probability and Statistics, Linear Algebra and ODE, Computational Methods in Engineering
- **Machine Learning:** Data Mining & Knowledge Discovery, Neural Networks & Deep Learning\*, Sequence Models\*

## POSITION OF RESPONSIBILITY

<b>Entrepreneurship Cell, IIT Kanpur</b>   Secretary	May'20 - Apr'21
<ul style="list-style-type: none"><li>• Assisted in the organization of <b>Entrepreneurial Extravaganza - India's biggest virtual event (8000+ footfall)</b></li><li>• Co-organized the first edition of <b>Entrepreneurial Bootcamp</b> with the participation of over <b>500+ enthusiasts</b></li></ul>	

## EXTRACURRICULAR ACTIVITY

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