

AMAN JAIN

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EDUCATION

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

SURGE IIT Kanpur Yoga Recommendation System 🌐 <i>Research Intern, Supervisor Prof Veena Bansal</i>	Jun'21 – Aug'21
<ul style="list-style-type: none">• 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 yoga asanas out of 226 asanas with an accuracy of 87%	

PROJECTS

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

TECHNICAL SKILLS

Programming Languages	C++, C, Python, JavaScript, PHP, SQL
Frameworks and Libraries	TensorFlow, PyTorch, Laravel, Pandas, Scikit-Learn, Matplotlib, Numpy
Software and Utilities	BeautifulSoup, Selenium WebDriver, Tableau, Git, L ^A T _E 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

Entrepreneurship Cell, IIT Kanpur Secretary	May'20 - Apr'21
<ul style="list-style-type: none">• 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 Inter-Hall Championship
- Participated in **Photography Club's** event in **Galaxy'20**, the Inter-Hall Media and Cultural Championship