Aman Jain

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Academic Qualifications

Year	Degree	Institute	Performance
2019 - Present	B.Tech Civil	Indian Institute of Technology Kanpur	7.6/10
2019	Class XII (CBSE)	DAV Public School, Kota	92.8%
2017	Class X (CBSE)	DAV Public School, Kota	10/10

Academic Achievements

- Received **Summer Undergraduate and Graduate Excellence (SURGE) fellowship** among **200 students** across **India** in **2021**
- Secured **All India Rank 3812** in **JEE Advanced 2019** among the 0.2 million shortlisted candidates
- Secured a position in the **top 1%** in **JEE Mains 2019** among 1.2 million aspirants

Work Experience

SURGE IIT Kanpur | Yoga Recommendation System *Jun'21 – Ongoing*
*With **Prof Veena Bansal**, Department of Industrial & Management Engineering, IIT Kanpur*

- Worked in a team and developed an **ML-Based Recommendation System** for yoga asanas based on user's medical conditions
- Designed the **Relational Database Schema** for storing asanas & other medical details and implemented it using **MySQL**
- Created a fully functional website using **HTML**, **CSS** & **JavaScript** for the frontend and **Laravel** for the backend
- Built a **DL Model** using **Tensorflow** that recommends top 5 asanas based on medical conditions with an accuracy of 87% on training set

Projects

Stock Price Prediction | amanjain252002/Stock-Price-Prediction *Mar'21*
Self Project

- Implemented an **LSTM Model** to predict the stock prices of Apple, Google, Tesla, Microsoft and Amazon 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%** on average

Escaping The Caves *Jan'21 - May'21*
*Course Project under **Prof Manindra Agrawal***

- Decrypted **classical ciphers** such as **Substitution** & **Permutation Ciphers** using frequency analysis methods
- Studied and designed **chosen plain-text attacks** on weaker forms of **modern cryptographic methods** such as **DES** and **EAEAE**

Model Zoo | pclubiitk/model-zoo *May'21 – Ongoing*
Programming Club, IIT Kanpur

- Studied and implemented **Deep Learning Models** using **PyTorch** and **Tensorflow** from research papers
- Models include **ResNet34**, **Inception-V1** and **Inception-V3** for Image Classification and **ESRGAN** for Super-Resolution

Technical Skills

Programming: Python, C++, C
Machine Learning: Tensorflow, PyTorch, Pandas, Scikit-Learn, Matplotlib, NumPy
Development: Laravel, PHP, JavaScript, MySQL, HTML/CSS
Miscellaneous: BeautifulSoup, Selenium, LaTeX

Relevant Coursework

∗: Coursera

Modern Cryptology	Fundamentals of Computing	Natural Language Processing Specialization*
Deep Learning Specialization*	Linear Algebra & ODE	Applied Probability and Statistics
Real Analysis	Partial Differential Equations	Introduction to Political Philosophy

Positions of Responsibility

Secretary, Entrepreneurship Cell, IIT Kanpur *May'20 - Apr'21*

- Worked as a part of the **Business Development team** in conducting various workshops and events
- Assisted in the organization of the first edition 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**

Extra-Curricular Activities

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