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

- 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 Main 2019 among the 1.2 million aspirants

WORK EXPERIENCE

SURGE IIT Kanpur | Yoga Recommendation System 🔾

Jun 2021 - Aug 2021

Remote

Research Intern, Supervisor Prof Veena Bansal

- Developed a Machine Learning-Based Recommendation System for yoga asanas based on medical conditions of the user
- Designed the Entity-Relationship Diagram and Relation Schema of the database and implemented it using MySQL
- Created a website using HTML, CSS and JavaScript for the frontend and Laravel for the backend
- Built an NLP Model using TensorFlow that predicts the top 5 asanas with an accuracy of 87% and integrated it into the website

PROJECTS

Stock Price Prediction
Mar 2021

Self Project

- Developed an LSTM Model to forecast 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

Model Zoo (7) May 2021 – July 2021

Programming Club, IIT Kanpur

- Studied Deep Learning Models and implemented them from scratch using PyTorch and TensorFlow
- Models include ResNet34, Inception-V1 and Inception-V3 for Image Classification and ESRGAN for Super-Resolution

Escaping The Caves •

Jan 2021 - May 2021

Course Project under Prof Manindra Agrawal

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

TECHNICAL SKILLS

Programming Python, C++, C

Machine Learning TensorFlow, PyTorch, Tableau, Pandas, Scikit-Learn, Matplotlib, NumPy

Development Laravel, PHP, JavaScript, MySQL, HTML/CSS

Miscellaneous BeautifulSoup, Selenium, Git, LATEX

RELEVANT COURSEWORK

- Computer Science : Modern Cryptology, Fundamentals of Computing
- · Mathematics: Applied Probability and Statistics, Linear Algebra and Ordinary Differential Equations, Real Analysis
- Coursera: Neural Networks and Deep Learning, Convolutional Neural Networks, Natural Language Processing with Sequence Models

POSITIONS OF RESPONSIBILITY

Entrepreneurship Cell, IIT Kanpur | Secretary

May 2020 - Apr 2021

- 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

EXTRACURRICULAR ACTIVITY

- 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