AMAN JAIN

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EDUCATION

Indian Institute of Technology Kanpur

B. Tech in Civil Engineering with a Minor in Industrial and Management Engineering

CPI: 8.0/10.0 2023

DAV Public School. Kota

Percentage: 92.8% 2019

DAV Public School, Kota

CGPA: 10.0/10.0

Class X CBSE

Class XII CBSE

2017 - 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 🗘

Jun'21 - Aug'21

Research Intern, Supervisor Prof Veena Bansal

- 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 C

Jun'22 - July'22

- 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

- 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

- 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

- 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 Frameworks and Libraries Software and Utilities

C++, C, Python, JavaScript, PHP, SQL

TensorFlow, PyTorch, Laravel, Pandas, Scikit-Learn, Matplotlib, Numpy BeautifulSoup, Selenium WebDriver, Tableau, Git, LATEX, 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

- 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