Neeraj Kumar Singh

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EDUCATION

Indian Institute of Technology   Delhi, India
Bachelor of Technology in Mechanical Engineering   *CGPA 7.93*   *Aug, 2018 – Jul, 2022*

Central Hindu Boys School   Varanasi, India
Higher Secondary Education   *Marks 90.6%*   *Jul, 2015 – May, 2017*

Raj English School   Varanasi, India
Secondary Education   *CGPA 9*   *Jun, 2014 – Jul, 2015*

SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank 419 (OBC)** among **1.5 million** candidates in JEE Advanced Exam in 2018
- Secured **All India Rank 29** in FIITJEE Talent Reward Examination (FTRE) conducted by FIITJEE in 2017
- Conferred scholarship on qualifying **UP Science Talent Search Examination** in 2017
- Won **Governor Award** in Scouts and Guides on excellent performance in **5 days camp** in 2012

PROJECTS

WhatsApp Chat Analyzer with Heroku deployment | *Side Project*   Jun, 2021 - Aug, 2021
- Built WhatsApp Chat Analyzer to **analyze** chats with the help of useful **statistics** and engaging **charts**
- Converted WhatsApp chat data into dataframe using **pandas** and **regular expression** libraries
- Used **urlextract**, **wordcloud**, **collections**, and **emoji** libraries to answer some questions on the dataset
- Constructed Stopwords for **hinglish** language and used it to remove irrelevant/unnecessary words from the data
- Used **Streamlit** library to create website, and **Heroku** platform to deploy the project

Laptop Price Predictor with AWS EC2 deployment | *Side Project*   Jun, 2021 - Jul, 2021
- Built a **end to end** laptop price predictor that predicts the laptop's price on the basis of given configurations
- Did EDA using **numpy**, **pandas**, **matplotlib** and **seaborn** libraries after cleaning the dataset
- Used **log transformation** to reduce the skewness in the target feature for better results
- Got R2 score of **87%** and MAE of **0.17** on the test dataset using **Random Forest** model in **Sklearn** library
- Used **Streamlit** library to create website, and **AWS EC2** instance to deploy the project

Content Based Movie Recommender System with Heroku deployment | *Side Project* Apr, 2021 - Jun, 2021
- Built **end to end** movie recommender system that recommends 5 most similar movies
- Used **Stemming**, **Stopwords** and **TFIDF** utilities from **NLTK** and **Sklearn** libraries
- Used **cosine distance** to find the similarity score between all pairs of movies
- Used **Streamlit** library to create website, **TMDB** API to fetch movie posters and **Heroku** to deploy project

Diagnosing Parkinson Disease using MLP and SVM | *Prof. Souvik Chakraborty*   Mar, 2021 - Apr, 2021
- Developed a **Decision Support System** to aid the Specialist in diagnosing of Parkinson Disease
- Balanced the dataset using **SMOTE** technique and reduced dimensionality using **PCA** technique
- Used **Sklearn** library for deploying **MLP** and **SVM** classifers on the Parkinson dataset
- Got **98%** accuracy and **0.95** F1 score after Hyperparameter tuning and model selection

TECHNICAL SKILLS

Programming Languages: C++, Python, Java, SQL (MySQL)   **Cloud**: Heroku, AWS (EC2 instance)
Data Science: Python libraries, Machine Learning (Sklearn), Deep Learning (TensorFlow and Keras)
Software & Tools: HTML, CSS, Git, LaTex, Anaconda, Jupyter, Streamlit, PyCharm, Google Colab, Visual Studio

POSITION OF RESPONSIBILITY

Nucleus Coordinator, Ofce of Career Services | *IIT Delhi*   Jun, 2020 - Apr, 2021
- Appointed after a **3 Stage** selection process with **300+** applicants
- Responsible to pitch and bring department wise companies in the campus for training and placement session
- Working in tandem with **500+ recruiters** for campus recruitment of **1000+ students** in a **40 membered team**