SHIKHAR SAXENA B.Tech. Chemical Engineering (With Minors in Mathematics)

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____ Area of Interest

Data Structure and Algorithm, Machine Learning and Deep Learning

StopStalk(Competitive Coding Portfolio): https://www.stopstalk.com/user/profile/shikhar2402

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2020	B.Tech. 2nd Year	Indian Institute of Technology, Roorkee	8.45
2017	Twelfth	De Paul School, Budaun	95.0 %
2015	Tenth	De Paul School, Budaun	92.0 %

Internships

Summer Internship | Algo One

30th April, 2020 – 29th June, 2020

- The Project was basically to deal with the shortcoming which are present on the Google Finance website.
- Used Pygsheets and Gspread Api of python for working on Google Spreadsheet and extracting each information of an individual stock.
- · Construction of historical and real-time synthetic indexes in equity markets using Google Finance data.
- Used Dynamic Visualization tools for visualizing the indexes in stock markets.

Summer Internship | AllthingsConnected

1st Feb, 2021- 30th March, 2021

- The project was basically to work on audio data which has been scrapped using selenium. The audio data contains speeches of leaders like Donald Trump and Narendra Modi.
- Used Facebook latest library Wav2vec from hugging face to convert audio to text.
- Used transfer learning methods from bert transformer from hugging face library to extract the word embedding and creating a deep learning neural- network which involves the use of Bi-Lstm to predict the sentiments of the speeches.

Projects

Captcha Filling | Artificial Intelligence and Electronic Society(ArIES)

- This project deals with text detection of captcha images from any websites.
- It uses a Optical Character Recognition (OCR) to images using Tesseract, Python, and OpenCV to find the text the images.
- Further Selenium Web-Driver was used for automatic filling of captcha on the website.
- This project was to be displayed in Srishti'20, The Annual Technical Exhibition.

Pedestrian Detection in Videos | Data Science Group

- Build a model for pedestrian detection from videos.
- Used OpenCV Library along with harcascade classifier to detect human face.
- Used as a surveillance system for numerous utility areas like event detection, crowded vicinity evaluation, gender classification, fall detection in elderly humans, etc.

Kaggle Projects

House Price Prediction using XGBoost_Regression

- Worked with the housing price dataset in Kaggle which contained some 80 different variables. Used feature engineering and stacked the models to obtain 222 features.
- ❖ a final prediction score of 0.115 placing me in top 10% in the leaderboard.
- https://www.kaggle.com/shikhar721/house-prediction-regression

Google Stock Prediction

- ❖ Developed a model to predict the stock of google market based on the given data set using LSTM in keras.
- Applying a Lstm layer on the featured dataset to predict the stock. Although it should be done by time series but Lstm too give a good result
- https://www.kaggle.com/shikhar721/google-stock-prediction.

Titanic: Machine Learning from Disaster

- Developed a model to predict the people survival rate in Titanic Disaster based on the given data set using Python
- ❖ Incorporated the usage of Binary Classifications and Ensembling techniques in the above-mentioned process
- https://www.kaggle.com/shikhar721/titanic-dataset/edit

Awards / Scholarships / Academic Achievements

- Jee Advance(2018) AIR 2926
- Jee Mains(2018) AIR 5817

Skills

Computer languages: C++, Python, Java

Software Packages: Excel, Google Spreadsheet, Jupyter Notebook, Spyder, Slack, Microsoft Office

Additional Courses Taken: Economics

Languages Known: English (SRW), Hindi (SRW)

Positions of Responsibility & Extra Curriculars

Member | Data Science Group

We strive to nurture the Machine Learning and Deep Learning culture at IIT Roorkee by making various projects.

Executive | National Service Scheme

• Active member in N.S.S

Executive | The Chemical Engineering Student's Society

• Arranges lecture of distinguished personalities in department of Chemical Engineering.

Undergraduate Teaching Assistant | Academic Reinforcement Programme IIT Roorkee

• UGTA for a batch of 25 freshmen for Mathematical Methods during the spring semester.

Volunteer | Unnat Bharat Abhiyan

· Volunteered in Unnat Bharat Abhiyan.