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# Shubham Kumar

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I am a pre-final year undergraduate interested in Data Science.Skilled in Python ,Machine learning,and deep learning.

## Education

B.Tech Computer Science, SRM Institute of Science and Technology. 2018–2022
Current CGPA : 9.24

## Work Experience

**Data Science Intern** **Pain free Academy** **Sep 2020–Dec 2020**
**Customer Success team** **New Delhi,India**

- I handled multiple responsibilities working in projects related to the NLP domain that works across multiple industry verticals.
- I built complex machine learning/deep learning models using a variety of tools and techniques in verticals like healthcare and smart city analytics and I was also responsible for creating content for the company's blog.

Internship completion Certificate : Completion_Certificate_Shubham.pdf

**Data Science Intern** **The Sparks Foundation** **Sep 2020**
**GRIP(Graduate Rotational Program)** **India**

- Worked with K-means algorithm,decision tree algorithm on a project and business analytics project during 1 month of internship.

Internship completion Certificate : TSF GRIP Certificate Shubham Kumar.jpg

## Technologies and Languages

- Languages : Python, C++
- Technologies : Machine learning, Deep Learning, Statistical modelling, NLP, Computer Vision, Data analytics, Data visualization, Amazon EC2, API Development, DBMS
- Tools and Frameworks : Tensorflow, keras, scikit-Learn, spacy, Hugging Face Transformers, nltk, gensim, pandas, matplotlib, seaborn, plotly, mysql, Flask, OpenCV,Textblob etc.

## Projects

1. **Healthify bot**
   - Telegram bot that solves your daily medical queries using **SOTA ML** algorithms built with **Rasa**. It uses a **multi-task transformer architecture** (DIET) which is 6 times faster to train than BERT.
   - Interactive, Solves medical doubts, has been trained on questions of **130+ diseases** from WebMD website and deployed on telegram.
2. **Aapka Apna Hip-Hop**
   - The next generation Rap tool which uses a **sequence language model LSTM** to generate lyrics for your own rap songs.
   - You can generate lyrics in the **style of a specific artist**. We support 3 artists, i.e. Eminem, Drake & Kanye West. Their respective song data was collected through web scraping and EDA was performed on those data.
   - We built a **web-app** with an interactive UI and it was deployed on heroku which is easily accessible to everyone on any device.
3. **Road safety and security systems**
   - Fraudulent License Plate Detection and Alerting System.
     - This involves the use of Computer Vision for license plate recognition using **Open ALPR and OpenCV**.
     - It automatically alerts the system administrator as soon as the license plate is not found in the database.
   - Helmet Detection System
     - This module again makes use of Computer Vision for Helmet Detection for two wheelers using **MobileNet-SSD object detection algorithm.**
     - It detects whether the riders are wearing helmets or not and identifies the people who aren't.

## Awards and Achievements

- My team won the **3rd prize in HackCBS3.0** (India's largest student-run hackathon) among participants from **260+ colleges & 2000+** registrations, for developing **Aapka Apna Hip-Hop**.
- Achieved **3rd position in HackYuva 2020** (organized by LearnYuva) among **150+ participants** from different colleges in India.
- Our team finished in the **Top 15 in SLAC 2020** among **250+ participants.** This hackathon was organized by Amrita School of Engineering, Bangalore.
- Finished in **Top 15** among **450+** participants in HackThisFall, a 24 hour hackathon organized virtually.