ISHAN NANGIA

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EDUCATION

Name of course	Year of Graduation	Institution	Score	Status
CBSE (Class X)	2013	Delhi Public School, Gurgaon	9.6 CGPA	Completed
CBSE (Class XII) (Commerce)	2015	Delhi Public School, Gurgaon	96%	Completed
B.Sc. Statistics (Hons)	2020	Sri Venkateshwara College, Delhi University	8.46 CGPA	Pursuing (Sem-5) (Year-3)

INTERNSHIPS

- **Data Science**
  Red Dot Foundation-Safecity
  Aug 2019 – Present
  Building a chatbot using Dialogflow and python for Safecity's website and Facebook page. Will be using webhooks for fulfillment and getting data from a database to provide to user based on their query.

- **Machine Learning**
  Genpact, Noida
  Jun 2019 –Aug 2019
  I worked on multiple NLP problems involving financial banking data. The two main problems I worked on were:
  1. Classification of Type and Subtype of financial emails. Used multiple classification models along with functions like stratifiedkfold, randomsearchcv etc.

  2. Classification of emails to identify which ID they were related to (with over 7000 different unique IDs) based on the payment description column. Built different similarity matrices (Jaccard, Euclidean, Cosine etc.) to classify emails correctly. Built an entire class along with a lot of different functions to model and extract patterns from the data.

- **Web Scraping**
  BlackCoffer (Virtual)
  Sep 2017 - Oct 2017
  I used BeautifulSoup, which is one of python's web scraping libraries, and regex, a regular expressions library, to scrape and collect data from financial documents from the US SEC (Securities and Exchange Commission) website. I designed my own web scraper to scrape the information. Later I built functions to extract information related to certain keywords based on the patterns identified.

PROJECTS

- **Recommendations using scraped Internship listings**
  Mar 2019 - Apr 2019
  https://github.com/beatboxerish/Internship-Recommendation-System
  This is my capstone project for the Data Science Nanodegree. In this project, I have built a hybrid recommendation system which uses a combination of knowledge and content-based models to make recommendations and a command line interface application that can be used to scrape data and make recommendations on it. I also made a mini-series of blog posts on Medium discussing how I went about completing my project and discussing the code to some extent. The data has been scraped from https://www.letsintern.com.

- **Recommendations using IBM Watson data**
  Feb 2019 - Mar 2019

https://github.com/beatboxerish/DSND/tree/master/Recommendations_IBM

Analyzed the interactions that users have with articles on the IBM Watson Studio platform and made 3 recommendation models to recommend new articles to them. I used a ranking based approach, a collaborative filtering approach and a machine learning approach.

- **Image Recognition App**
  Sep 2018 - Oct 2018
  https://github.com/beatboxerish/DSND/tree/master/Image_Classifier
  Built an image recognition command line app to predict the species of a flower from 102 different flowers based on the image provided by the user using pytorch in python. Got to implement transfer learning and experiment with neural networks. Also used argparse module for command line interface.

- **Customer Segmentation for Mailout campaign**
  Jun 2018- Jul 2018
  https://github.com/beatboxerish/DSND/tree/master/Customer_Segmentation_Unsupervised
  Worked with real-life data provided by the Bertelsmann partners AZ Direct and Arvato Finance Solution. The data here concerns a company that performs mail-order sales in Germany. Their main question of interest was to identify facets of the population that were most likely to be purchasers of their products for a mailout campaign. I used unsupervised learning techniques to organize the general population into clusters, and then used those clusters to see which of them comprised the main user base for the company. Prior to applying the machine learning methods, I also assessed and cleaned the data in order to convert the data into a usable form.

- **Breast Cancer Prediction**
  Mar 2018 – Apr 2018
  https://www.kaggle.com/ishthewiz/first-problem-feature-importance-grid-search-pca
  This is a Kaggle problem I worked on where I applied several classification algorithms and techniques like PCA and Grid Search CV to make an algorithm to classify breast tumor as malignant or benign.

WORK SAMPLES

- GitHub Profile: https://github.com/beatboxerish
  This is where you will find all my projects that I have mentioned above.
- Medium Blogs: https://medium.com/@ishannangia
  This is where I have written several bogs from describing the projects I have done to building an Indian chaat classifier with fast.ai.

TRAININGS AND SKILLS

- **Data Analysis and Visualization – Complete Bootcamp by TakenMind**
  July 2019 – August 2019
  Got a refresher on different libraries: Pandas, Numpy, Seaborn and Matplotlib.

- **Data Science NanoDegree (Udacity)**
  Aug 2018 – Apr 2019
  I was enrolled in the Udacity Data Science Nanodegree which I have now completed. There were several modules, including supervised learning, deep learning, unsupervised learning and recommendation engines, that I had to complete. All the projects are available at my GitHub account.

- **Machine Learning**
  Feb 2018 – Aug 2018
  Have taken several python courses specializing in machine learning from Coursera and edX. Can work with several libraries including: sklearn, matplotlib, seaborn. scipy, pandas, numpy and BeautifulSoup. I have also written an application in Pytorch and have some experience using Git, SQL and R (for statistical tests).

POSITIONS OF RESPONSIBILITY

- I had founded Indian Beatboxers United, a beatboxing organization, to promote the Indian beatboxing scene in December 2015. We organized several beatboxing competitions in Delhi/NCR, including one at Hard Rock Cafe Gurgaon, and one in Kolkata too. Our focus was our YouTube channel which we used to showcase different beatboxers around the country

Link to the channel : https://www.youtube.com/channel/UCAQPU1j5Pw43BDwHPRzrPFQ/videos

- The beatboxing competition at Hard Rock Cafe Gurgaon, which at that time, January 2016, was the biggest such competition. We had participants from NCR, Jaipur, Punjab and Hyderabad and this was the first beatboxing competition to be organized in a Hard Rock Cafe in India.

- I was the music president of my school in class 12th during which I organized and started a new annual fest among many other things.

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- I have spent a lot of time beatboxing and have represented India in international competitions. I was the Indian Vice Champ in 2016 and was the first Indian to represent India internationally when I was selected for the Great North Battle 2017 in Canada. I had been on the forefront of the Indian beatboxing scene till mid 2018 when I decided to focus on Data Science and AI as after experimenting and diving in the line, I didn't see myself beatboxing for my entire life.

- Some of my videos (If you are interested in knowing more about me):

  1. Grand Beatbox Battle (Switzerland) : https://www.youtube.com/watch?v=RsrarD5WU6w

  2. TedxTalk@DAIICT : https://www.youtube.com/watch?v=hvfNQnDLnGw

  3. Great North Battle 2017 (Canada) : https://www.youtube.com/watch?v=bGUQwS46pww