



Ankit Agarwal

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B.Tech - Civil Engineering

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Github | Portfolio | LinkedIn

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Guwahati	8.24 (Current)	2019-Present
Senior Secondary	CBSE Board	88.0%	2019
Secondary	CBSE Board	10.0	2017

EXPERIENCE

- The Sparks Foundation** Dec 2021 - Jan 2022
Data Science & Business Analytics Intern Location:Remote | Github
 - Developed a hybrid model for stock performance prediction using **Numerical Analysis** and **Sentimental Analysis**.
 - Estimated sentiments of news headlines from TOI using **NLTK** and **textblob library** and used **Random Forest** for final modelling. Got **MAE** of **0.57** and **RMSE** of **0.76** on test data

PROJECTS

- Road Network Extraction (Bachelor Thesis Project)** July 2022 - Ongoing
Dr. Rishikesh Bharti/Dept. of Civil Engineering/IIT Guwahati Github
 - Developing a **deep learning model** for extracting the road network from given high resolution images
 - Analyzing different models based on **CNN**, **Dense-net**, **Graph-Based**, **GAN** for better understanding the underlying architecture of the models.
- Fake News Detection** Github
Self Project
 - Built a model to classify user-supplied news as fake or real using different NLP techniques
 - Used various models like **Logistic Regression**, **Multinomial Naive Bayes**, **Random Forest**, **XGBoost** and **LSTM** for classification task and got the best test set accuracy of around **98%** for **LSTM**
- Movie Recommendation System** Github
Self Project
 - Developed a end-to-end website to recommend movies based on the user input & deployed it using **Streamlit** and **Heroku**.
 - Built a **Content-Based Recommendation** model using **Count Vectorizer** technique and **Cosine Similarity** metric on **TMDB-5000 Movies Dataset**.
- Word Prediction using RNN** Github
Self Project
 - Built a model which predict the next word given a sequence of words or sentences using **Recurrent Neural Network**.
 - Tokenized the text file and trained a **sequential RNN** with **LSTM** layers for text and word completion

TECHNICAL SKILLS

- Programming:** Python, C/C++, JavaScript*
- Tools/Frameworks:** Numpy, Pandas, Scikit Learn, Matplotlib, Seaborn, Tensorflow*, NLTK, SQL
- Web Technologies:** HTML, CSS, Bootstrap, React*
- Miscellaneous:** Ansys Fluent*, MS Excel * Elementary proficiency

KEY COURSES TAKEN

- Mathematics:** Linear Algebra, Basic Calculus, Discrete Math and Analyzing Social Graphs
- Machine Learning:** Data Science (IBM), Machine Learning Specialization(Stanford University)
- Programming:** Data Structures and Algorithms, Databases and SQL for DS with Python

POSITIONS OF RESPONSIBILITY

- Head of Public Relations, Alcheringa**, Annual Cultural Festival of IIT Guwahati Apr. 2021 - Apr. 2022
 - Public Relations Head of the **largest college event** held in North East India with a footfall of **140k+** people.
 - Spearheaded an elite **3 tier team** consisting of **30 core team members**, **40 executives** and **100+ associate executives**.
 - Crossed the milestone of **3k+ participation** in **20+ events** from **500+ colleges** from all over the India
 - Guided webops team on planning and deciding the design and prototype of **5+ web interfaces**

EXTRACURRICULAR

- Quantium**, Completed Data Analytics Virtual Experience Program 2022
- IBM**, Created a Machine Learning Pipeline to analyze the landing of Falcon 9 rocket Launches 2022
- Hand Gesture Drone**, Software Development, Aeromodelling Club. 2019
- City Representative**, Pali, Rajasthan, Technothon, International School Championship. 2020
- Short Movie Making and Mime**, Manthan, Inter-Hostel Cultural Competition 2020
- Street Play**, XPRESSIONS - The Dramatics Society, IIT Guwahati 2019