RATIN KUMAR

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Github Linkedin

Education

Graphic Era Hill University, Dehradun, India **2021 - present**
- Bachelor of Technology (B. Tech) in Computer Science | CGPA: **8.3/10**

Paramount Academy, Muzaffarpur, India **2020**
- *CBSE (Class XII), Aggregate: 70.8%*

Paramount Academy, Muzaffarpur, India **2018**
- *CBSE (Class X), Aggregate: 78%*

Skills

Technical Skills

Proficient in C++, Data Structures, and Algorithms.

Familiar with C, Java, Python, Machine Learning & AI, MySQL, HTML, CSS, JavaScript, Jupyter Notebook, Linux.

Frameworks and Libraries:- TensorFlow.

Soft Skills

- Communication (English/Hindi)
- Teamwork & Team Management
- Problem Solving & Critical Thinking
- Decision Making

Projects

Emojify | (Tools used: CNN, Transfer Learning, Computer Vision, Tensorflow**)** **Jun'24**

Developed an advanced neural network model to predict emojis based on real-time facial expressions, achieving 98% accuracy.
- This project is purely based on CNN and Computer Vision.
- Created my own dataset and then trained my model with that dataset.
- I mainly considered five emotions (i.e. Angry, Happy, Sad, Neutral, and Shock).

Emotion Detection using Voice | (Tools used: CNN, Transfer Learning, Mel-Scale, Spectrogram, Tensorflow**)** **Dec'23**

Developed a model that can recognize a person's 7 emotions (anger, happiness, disgust, neutral, fear, sadness, surprise) by taking his/her voice as input. Emotion is detected based on a person's pitch and tone.
- Used Mel-Spectrogram to extract frequency from my ".wav" file in the form of a spectrogram so that it can be trained on the CNN model, achieving 95% accuracy.
- For testing, input is given by the own side, for recording the voice python with JavaScript is used.

Sentiment Analysis on Hotel Reviews | (Tools used: Machine Learning, NLP**)** **Jun'23**

Conducted a comprehensive sentiment analysis project on hotel reviews.
- Used NLP techniques to analyze hotel reviews and develop a sentiment analysis model classifying sentiments as positive, neutral, or negative.
- Employed Doc2Vec and TF-IDF for feature extraction and evaluated model performance using ROC and Precision-Recall curves.

Academic and Extracurricular Achievements

Discipline Committee | Head **Sep'22 - Dec'22**
- Played an integral role in the Head of Discipline committee, demonstrating effective leadership and organizational skills by leading and coordinating diverse projects and events.