

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

Emojiify | (Tools used : CNN, Transfer Learning, Computer Vision, Tensorflow)

Jun'24

In this Project Emojiify I have created a model which will predict an emoji based on my live expressions.

- 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

This project can recognize the 7 emotions (anger, happiness, disgust, neutral, fear, sadness, surprise) of a person by taking his/her voice as an input. The emotion is detected on the basis of pitch and tone of a person.

- Used Mel-Spectrogram to extract frequency from my ".wav" file in the form of spectrogram so that it can be trained on CNN model.
- For testing input is given by own side, for recording the voice python with Java Script 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.