# Yuvraj Singh

NLP enthusiast | Exploring AI/ML field | Budding Researcher | Undergrad (CSE) @ IIIT Bhubhneshwar

## Contact me


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## Skills/Technologies

- Languages: Python, C++, Kotlin
- Frameworks: Tensorflow, Keras
- Machine Learning: Supervised and Unsupervised Algorithms (Clustering)
- Deep Learning: ANN, CNN, OpenCV, YOLOv8,
- NLP: RNN, LSTM, Bi-LSTM, Word2Vec, Fasttext
- Other: Streamlit, Git, Github, Render

## Education Background

- IIIT Bhubneshwar
  *BTech in Computer Science Engineering*
  Expected Graduation in 2027
- Delhi Public School
  *Class 12th (CBSE) 2022-23*
  Percentage: 91%
- Amity International School
  *Class 10th (CBSE) 2021-22*
  Percentage: 96%

## Achievements

- **Led** the **winning project (MoviesMania)** at D3 2023, inter-college hackathon in AI/ML domain
- Secured **97.7** percenile in **JEE Mains 2023**
- 'International Rank 6 @SOF IMO
- Medal of Distinction @SOF IMO
- Gold Medal in National Mathematical Olympiad Contest
- Gold Medal @SOF NCO (Class Topper)
- Gold Medal @SOF NSO (Class Topper)

## About Me

An undergrad tech enthusiast in the domain of **Machine Learning** and **Deep Learning** with an inclination towards **NLP**, pursuing Btech in Computer Science, exploring the field of research in the same. Led the **winning project at D3**, an inter-college hackathon organized by IIIT BH in the AI/ML domain. Currently looking for a role as **AI/ML enginner/researcher.**

## Projects

**MoviesMania** (Movies Recommendation System-**Team Project**)

**Role: Team Lead**, AI/ML sector of the project was handled by me.

**Vision/Goal:**

- To provide an interface to users to find similar movies/web-series recommendations based on an uploaded video clip/YT Short.

**Solution:**

- To make use of the various faces of actors in the provided clip and the details provided(title, genre, plot) for the prediction of movie's title (if available in the dataset) or similar movies/web series.

**Result:**

- Prediction of movie's title(if available in the dataset) with 78% accuracy and similar movies with 85% accuracy.

**Tools used:**

- Keras, Tensorflow, Word2Vec (Word Embeddings), MTCNN, NLTK, Spacy, VGGFace, OpenCV, Streamlit , Render

**Multi-class News Classification WebApp**

**Vision/Goal:**

- To provide an interface for users to find news under certain categories such as Tech, World, Business and Sports

**Solution:**

- Made use of the AGI news Kaggle dataset, NLP-based preprocessing techniques along with custom-trained Word2Vec model along with Bi-LSTM model.

**Result:**

- Successfully built the said WebApp with streamlit as front-end. Achieved an accuracy of 91% with precision 91 % and recall 90%

**Tools used:**

- Keras, Tensorflow, Word2Vec (Word Embeddings), Bi-LSTMs, NLTK, Spacy, Streamlit, Render

**Movie Review System WebApp**

- **Vision/Goal:**
- To provide an interface to allow users read spoiler free reviews along with a touch of sentiment analysis (on reviews) for better viewing exoerience.
- **Solution:**
- Made use of the a Machine Learning model(sentiment analysis) using Voting Classifer(SVC+Logistic Regression) and Deep leearning model(spoiler v/s non-spoiler) using Bi-LSTMs after thorough preprocessings and custom traiend Word2Vec
- **Result:**
- Succesfully built the said WebApp with streamlit as front-end. Achieved an accuracy of 91% with precision 91 % and recall 90%
- **Tools used:**
- Keras, Tensorflow, Word2Vec (Word Embeddings), Bi-LSTMs, NLTK, Spacy, Streamlit, Render