

ML Hackathon – Set 1

Sentiment Analysis

The Quest for the Perfect Fusion Model

In the bustling city of Techville, where innovation and creativity were celebrated, there was a team of bright minds known as the Gyaan Yoddhas. Led by Prof. Raghunathan Rengaswamy, a renowned expert in artificial intelligence, the team comprised:

- Abhishek Vijayvargia: The video analysis wizard, skilled in extracting meaningful patterns from visual & audio data.
- Prashant Warier: The natural language processing (NLP) guru, adept at deciphering the intricacies of textual information.
- Rajeev Rastogi: The data engineer, responsible for collecting and preprocessing vast amounts of data.
- Satnam Singh: The machine learning specialist, who could build and fine-tune complex models with ease.

One sunny afternoon, as the Gyaan Yoddhas gathered in their lab, Prof. Raghunathan Rengaswamy unveiled their next grand challenge.

"Team, we have been tasked with a monumental project," Prof. Raghunathan Rengaswamy announced.

"Our mission is to develop a multimodal fusion model for sentiment analysis using video and text data from a TV show: Friends"

Abhishek looked intrigued. "Friends? That is an iconic show! What is the specific goal?"

Prof. Raghunathan Rengaswamy smiled. "For the videos given, we need to detect the sentiments. The system should classify the clips into categories based on how the speaker feels when they speak. It should also identify the sentiment of each sentence spoken. We'll be using both video (visual & text) and subtitle data to analyze the evolution of sentiments over time." We will work on this challenge to develop a robust multimodal model.