Rajalakshmi Engineering College

Department of Artificial Intelligence & Machine Learning

III Year (2025 – 2026) - AI23521: Build and Deployment of ML app

Mini Project - Abstract

Title	Sentiment analysis of Movie reviews	
Team Members	**Reg. No.** 1. 231501142 2. 231501170 3. 231501175	**Name** Sai Sanjay S V Tanish P S Trishanth D P J
Project Mentor	**Dr.M.Soundarya AIML Dept**	

Sentiment analysis of movie reviews

ABSTRACT :

The project Sentiment Analysis for Movie Reviews focuses on determining the emotional tone of user reviews by leveraging Natural Language Processing (NLP) through an API-based approach. The system collects movie review text and sends it to a sentiment analysis API that processes the input and returns categorized results as positive, negative, or neutral. This approach eliminates the need for building complex models from scratch, as the API utilizes pre-trained machine learning models for high accuracy and faster results. The project demonstrates how API integration simplifies sentiment classification, enhances scalability, and allows real-time analysis of large volumes of data. This can help filmmakers, critics, and audiences gain quick insights into public opinion about movies, improving decision-making and recommendation systems.

SUPERVISOR   **REVIEWER**

OUTPUT:

movie_assistant()

[nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data]   Package stopwords is already up-to-date!
No model was supplied, defaulted to distilbert/distilbert-base-uncased-finetuned-sst-2-english and revision 714eb0f (https://huggingface.co/distilbert/distilbert-base-uncased-finetuned-sst-2-english).
Using a pipeline without specifying a model name and revision in production is not recommended.
Device set to use cuda:0
📋 Welcome to the Movie Assistant!
Enter a movie name: notting hill

Movie Plot:
London bookstore owner William Thacker's quiet life turns upside down when a chance encounter with famous actress Anna Scott sparks an unlikely romance challenged by their vastly different worlds.

Enter your review: excellent
Sentiment: POSITIVE (1.00)