**Movie Recommendation System using Streamlit**

This project is a simple and efficient movie recommendation system that suggests similar movies based on content. It is built using Python and deployed as a web application using Streamlit. Users can input or select a movie title and receive recommendations for similar movies instantly.

Abstract:

The Movie Recommendation System is based on content-based filtering. It analyzes movie overviews and calculates similarity using TF-IDF vectorization and cosine similarity. The system is user-friendly and hosted using Streamlit, making it easily accessible and visually interactive.

Tools Used:

* Python
* Pandas
* -Scikit-learn
* Streamlit
* TMDB Movie Dataset (CSV file)
* VS code

Steps Involved in Building the Project :

1. Data Collection: Loaded TMDB movie dataset with titles and overviews.

2. Data Preprocessing: Removed null values and cleaned the data.

3. Feature Extraction: Used TF-IDF to convert overviews into numerical format.

4. Similarity Calculation: Applied cosine similarity to compare movie vectors.

5. Recommendation Function: Created a function to return top 5 similar movies.

6. Streamlit Frontend: Built a UI allowing users to select a movie and get results.

Conclusion :

The project successfully delivers a functional and intuitive movie recommendation system using Streamlit. It provides quick and relevant suggestions based on movie content and can be further enhanced by integrating posters, genre filters, or collaborative filtering techniques.