

RECOMMENDATION SYSTEM

MOVIE RECOMMENDER SYSTEM

USING PYTHON & NLP

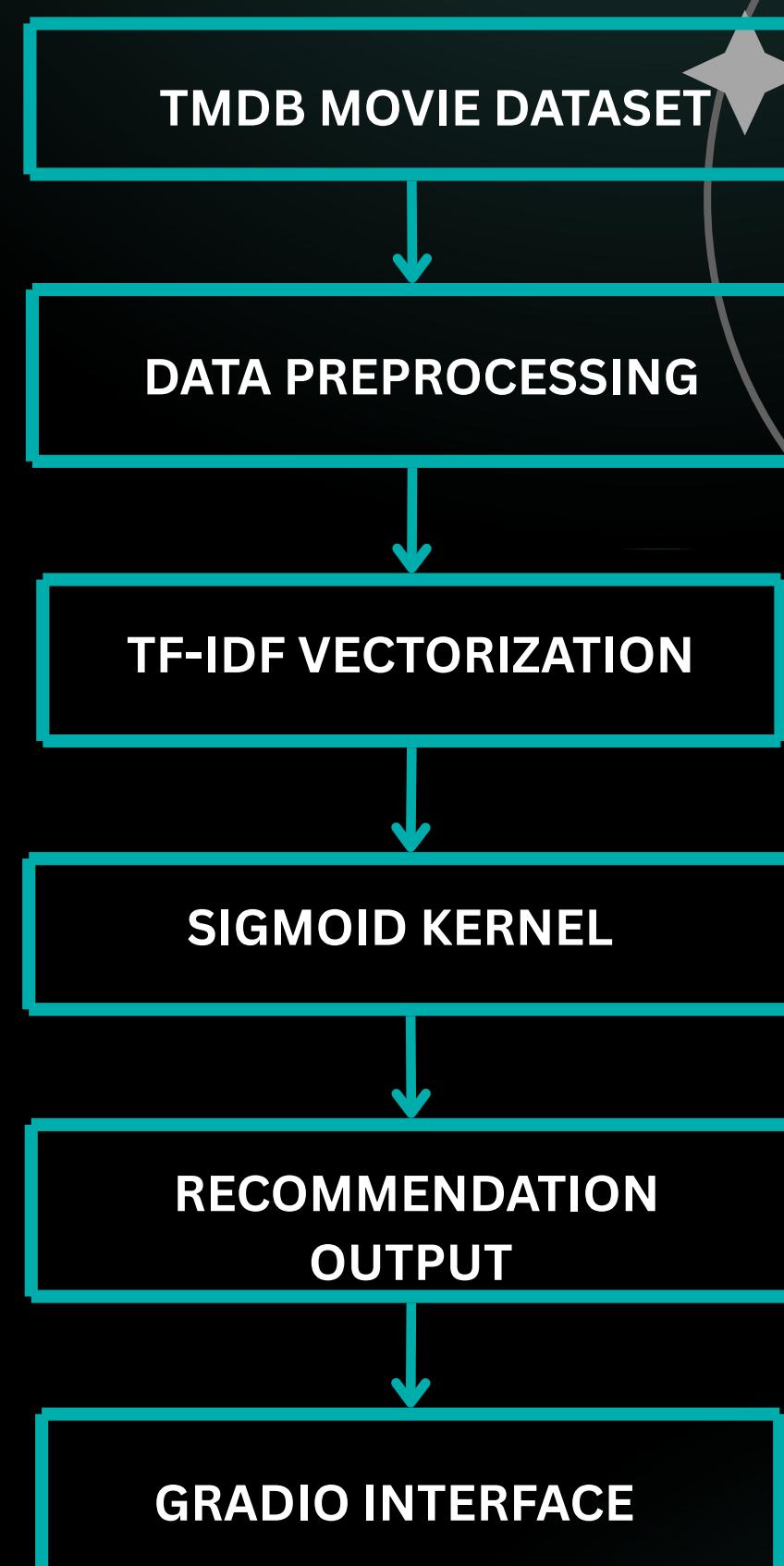
INTRODUCTION

This project presents a Content-Based Movie Recommendation System that suggests movies based on their plot similarity. Using TF-IDF vectorization and the Sigmoid Kernel, it measures the textual similarity between movie overviews. Unlike collaborative methods, it doesn't rely on user ratings, making it effective for new or unrated movies. The system is built with Python and Gradio for an interactive experience.

OBJECTIVES

- To preprocess and merge movie datasets.
- To convert text to vectors using TF-IDF.
- To compute similarity via the Sigmoid Kernel.
- To recommend similar movies interactively.
- To visualize popularity and rating metrics.

FLOW DIAGRAM

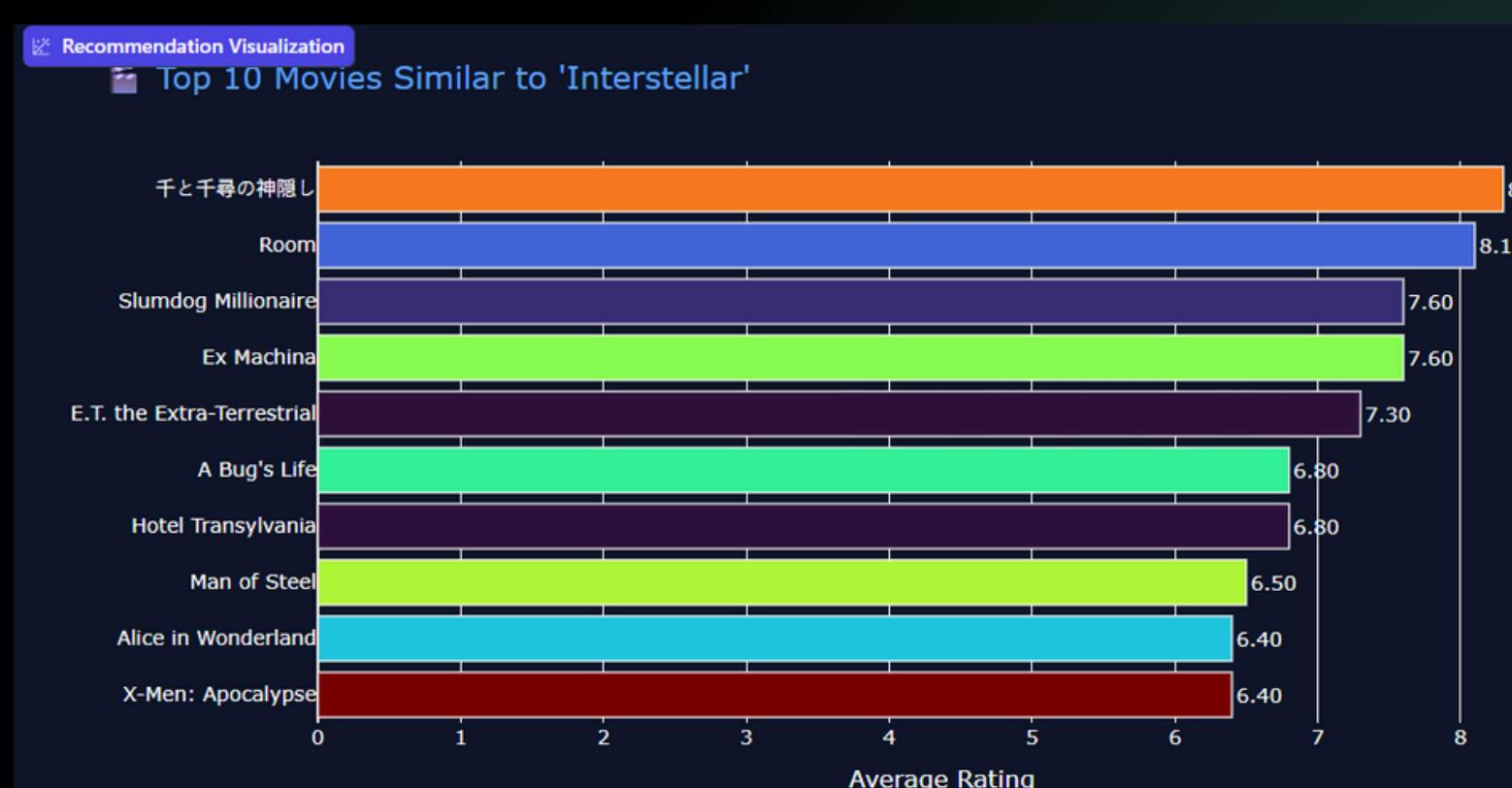


OUTPUT

 **Movie Recommender System**

Find movies similar to your favorite using TF-IDF + Sigmoid Similarity ↴

Recommended Movies			
original_title	vote_average	popularity	overview
Man of Steel	6.5	99.398009	A young boy learns that he has extraordi
Room	8.1	66.11334	Jack is a young boy of 5 years old who
千と千尋の神隠し	8.3	118.968562	A ten year old girl who wanders away f
Ex Machina	7.6	95.130041	Caleb, a 26 year old coder at the world
Slumdog Millionaire	7.6	59.258969	Jamal Malik is an impoverished Indian t
Hotel Transylvania	6.8	56.257411	Dracula, who operates a high-end resort
E.T. the Extra-Terrestrial	7.3	56.105798	After a gentle alien becomes stranded o
A Bug's Life	6.8	87.350802	On behalf of "oppressed bugs everywhere
X-Men: Apocalypse	6.4	139.272042	After the re-emergence of the world's i
Alice in Wonderland	6.4	78.530105	Alice, an unpretentious and individual



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