

MOVIE RECOMMENDER SYSTEM

USING PYTHON & NLP

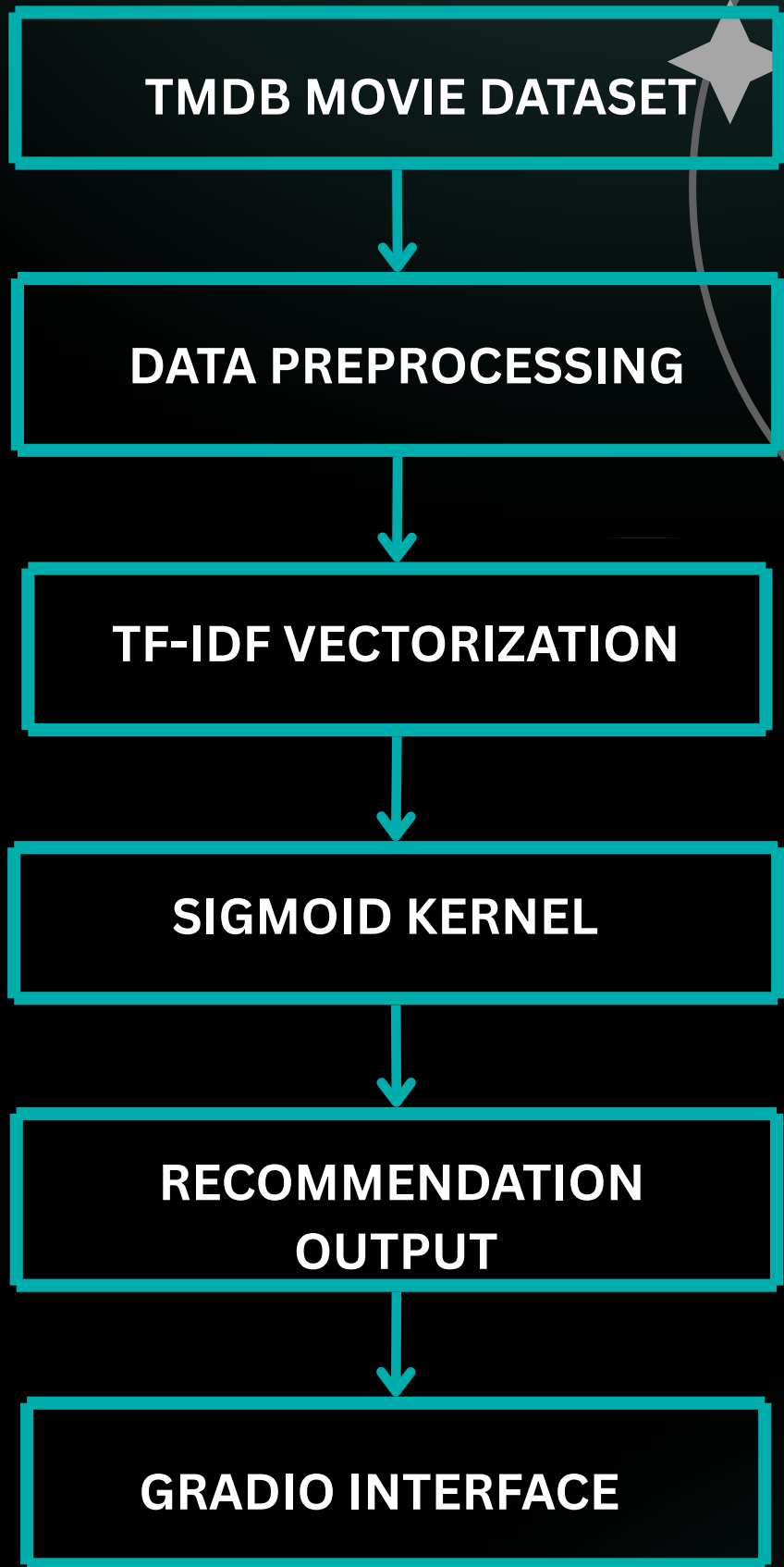
INTRODUCTION

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

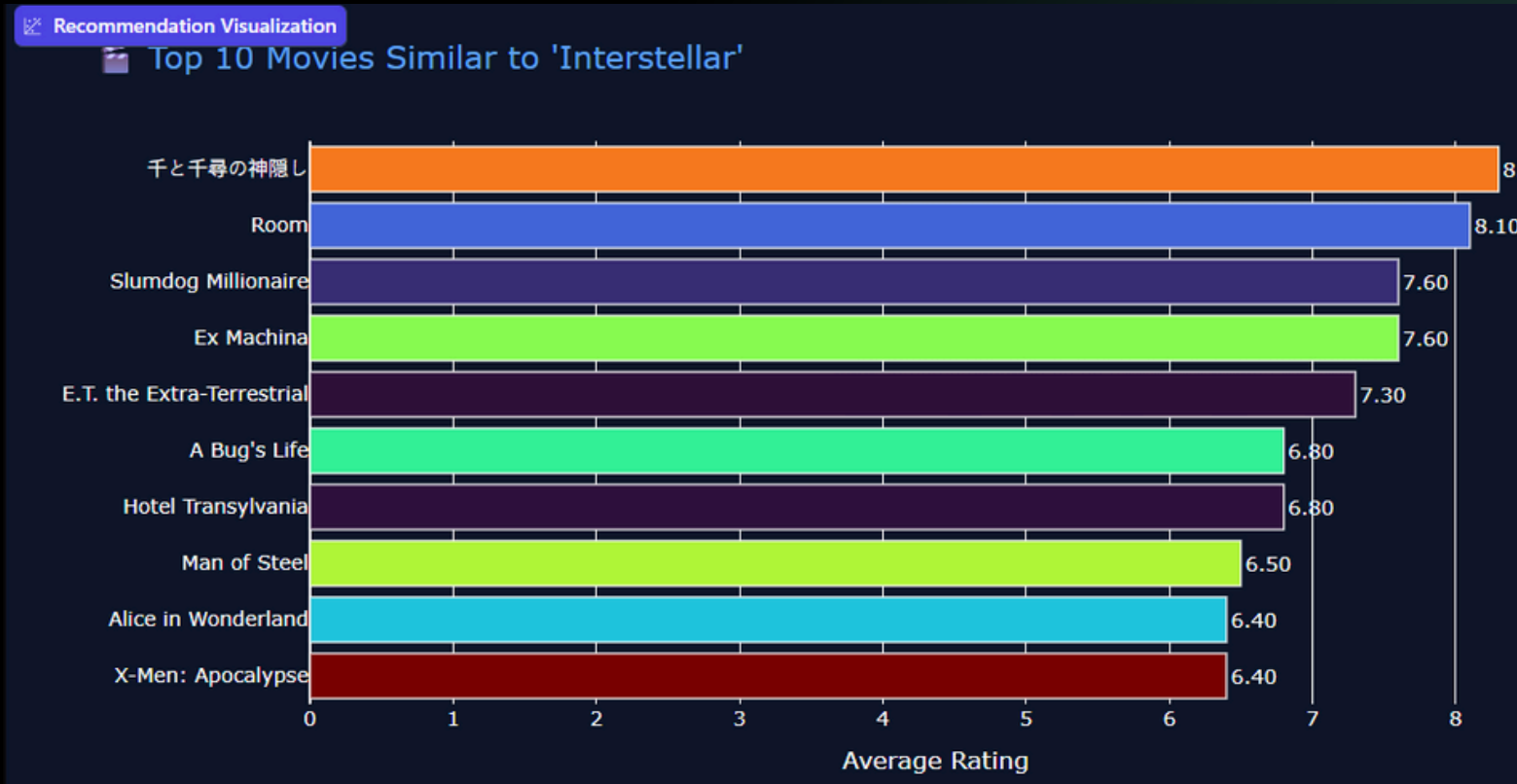
- To preprocess and merge movie datasets.
- To convert text to vectors using TF-IDF.
- To compute similarity via the Sigmoid Kernel.
- To recommend similar movies interactively.
- To visualize popularity and rating metrics.

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 extraordinary powers.
Room	8.1	66.11334	Jack is a young boy of 5 years old who is held captive in a small room.
千と千尋の神隠し	8.3	118.968562	A ten year old girl who wanders away from her house and falls into the world of a spirit.
Ex Machina	7.6	95.130041	Caleb, a 26 year old coder at the world's leading tech company, is chosen to be the first human guest at the company's new AI.
Slumdog Millionaire	7.6	59.258969	Jamal Malik is an impoverished Indian boy who becomes a millionaire on the Indian version of the game show 'Who Wants to Be a Millionaire?'
Hotel Transylvania	6.8	56.257411	Dracula, who operates a high-end resort for monsters, is forced to let his daughter go to a human college.
E.T. the Extra-Terrestrial	7.3	56.105798	After a gentle alien becomes stranded on Earth, a young boy befriends him and tries to help him return home.
A Bug's Life	6.8	87.350002	On behalf of "oppressed bugs everywhere," Fieps, a tiny ant, leads a rebellion against the cruel, tyrannical, and overbearing henchman of the local tyrant.
X-Men: Apocalypse	6.4	139.272042	After the re-emergence of the world's first mutant, the X-Men must band together to stop the powerful and evil Apocalypse.
Alice in Wonderland	6.4	78.530105	Alice, an unpretentious and individual girl, falls down a rabbit hole into a fantastical world.



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QR CODE

