MOVIE RECOMMENDER SYSTEM

-CONTENT BASED RECOMMENDER SYSTEM WITH HEROKU DEPLOYMENT

WHAT ARE RECOMMENDER SYSTEMS?

Recommender systems, also known as recommendation systems or engines, are a type of machine learning application that provides personalized suggestions or recommendations to users. These systems are widely used in various industries, such as e-commerce, online streaming services, social media, and more, to help users discover relevant items or content based on their preferences and behavior.

TYPES OF RECOMMENDER SYSTEMS

CONTENT-BASED FILTERING:

This method recommends items based on the features or attributes of the items and the user's preferences. It involves creating a profile for each user and recommending items that are similar to those the user has liked in the past. For example, if a user likes action movies, the system may recommend other action movies.
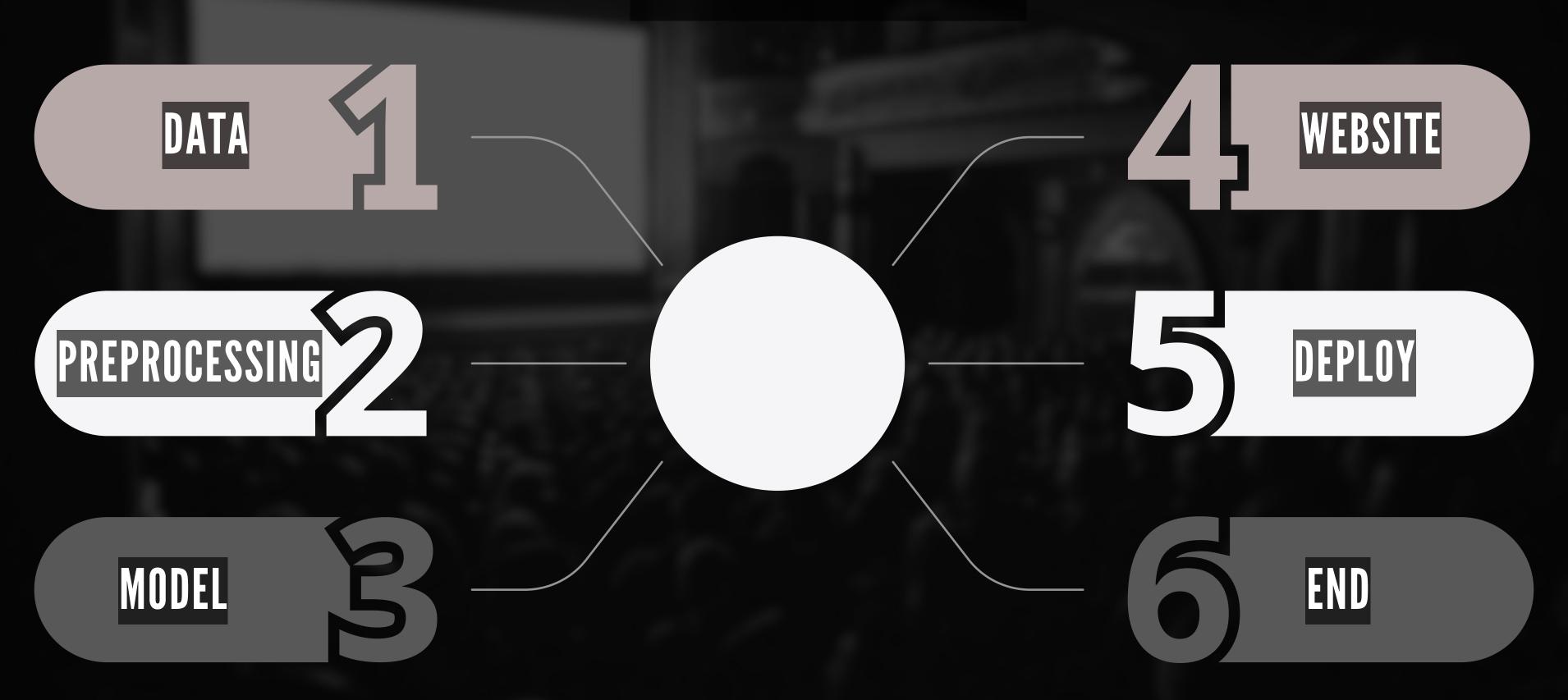
Collaborative Filtering:

This approach recommends items based on the preferences and behaviors of users with similar tastes. If user A and user B have similar preferences, and user A likes an item that user B has not seen, the system may recommend that item to user B.

Hybrid Methods:

Hybrid recommender systems combine both collaborative and content-based approaches to provide more accurate and diverse recommendations. By leveraging the strengths of both methods, hybrid systems aim to overcome some of the limitations associated with individual approaches.

PROJECT FLOW

DATA 1

4 **WEBSITE**

PREPROCESSING 2

5 **DEPLOY**

MODEL 3

6 **END**

DATASET

"IN THIS PROJECT, WE UTILIZED THE TMDB 5000 MOVIE DATASET, SOURCED FROM THE MOVIE DATABASE (TMDB). THE DATASET CONTAINS INFORMATION ON A DIVERSE SET OF MOVIES, INCLUDING DETAILS SUCH AS CAST, CREW, BUDGET, REVENUE, AND USER RATINGS. THIS DATASET PLAYED A CRUCIAL ROLE IN [MENTION THE SPECIFIC ASPECTS OR TASKS IN YOUR PROJECT WHERE THE DATASET WAS USED], ENRICHING OUR ANALYSIS AND CONTRIBUTING TO THE OVERALL DEPTH OF OUR FINDINGS. FOR MORE INFORMATION ABOUT THE DATASET, PLEASE REFER TO THE OFFICIAL TMDB WEBSITE: DATASET LINK"

TOOLS & PLATFORM

"For the implementation of this project, we harnessed the power of Jupyter notebooks along with essential data science libraries such as NumPy and Pandas. Jupyter notebooks provided an interactive and collaborative environment, allowing us to seamlessly weave code, explanations, and visualizations. The versatile NumPy library proved instrumental in handling numerical operations and array manipulations, optimizing computational efficiency. Pandas, on the other hand, emerged as a cornerstone in our data manipulation and analysis pipeline, empowering us to explore and clean the TMDB 5000 Movie Dataset effortlessly. Together, these tools formed a robust foundation, enabling us to conduct thorough data exploration, analysis, and visualization throughout the project lifecycle."

"BEFORE WE WRAP UP, I WANT TO TAKE A MOMENT TO EXPRESS MY HEARTFELT GRATITUDE. AS A SOLO CONTRIBUTOR TO THIS PROJECT, I APPRECIATE THE JOURNEY AND THE CHALLENGES OVERCOME. THANK YOU FOR YOUR OWN DEDICATION AND EFFORT. THIS ENDEAVOR WOULDN'T HAVE BEEN POSSIBLE WITHOUT YOUR COMMITMENT. CHEERS TO THE JOURNEY AHEAD!"

THANK YOU SO MUCH!