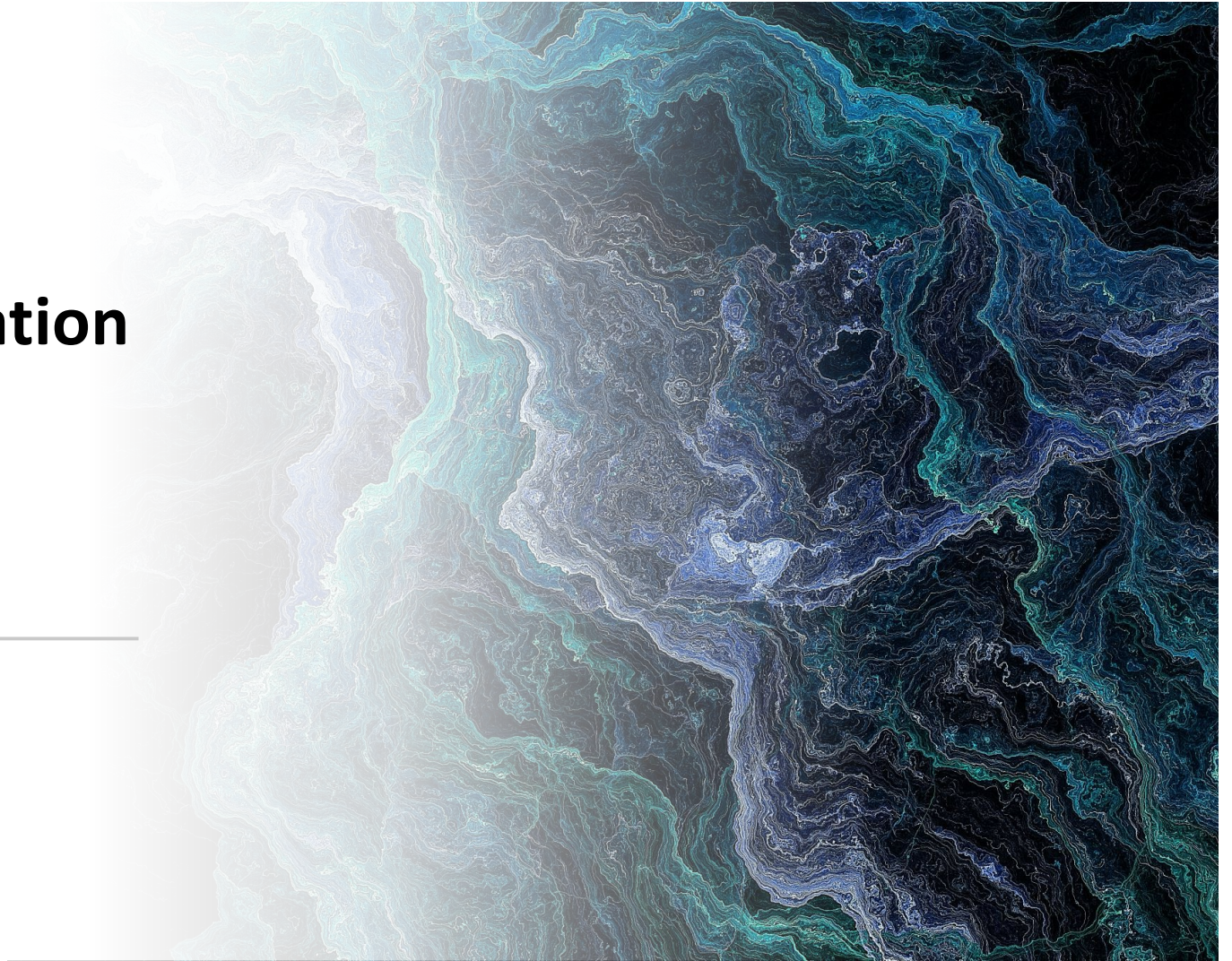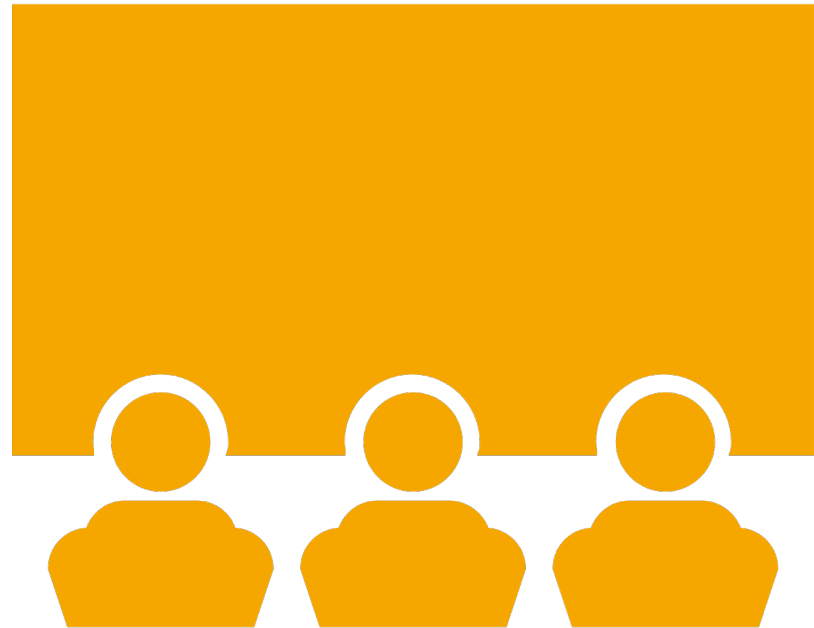# Movie Recommendation System Using Python and Streamlit

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Introduction

- **What is a Movie Recommendation System?**

- A system that suggests movies to users based on their preferences.

- **Objective :** Build a user-friendly app to recommend movies using Python and Streamlit (web).

Methodology

- **Technologies Used:**
- Python
- Streamlit
- TMDB API (for movie posters and details)
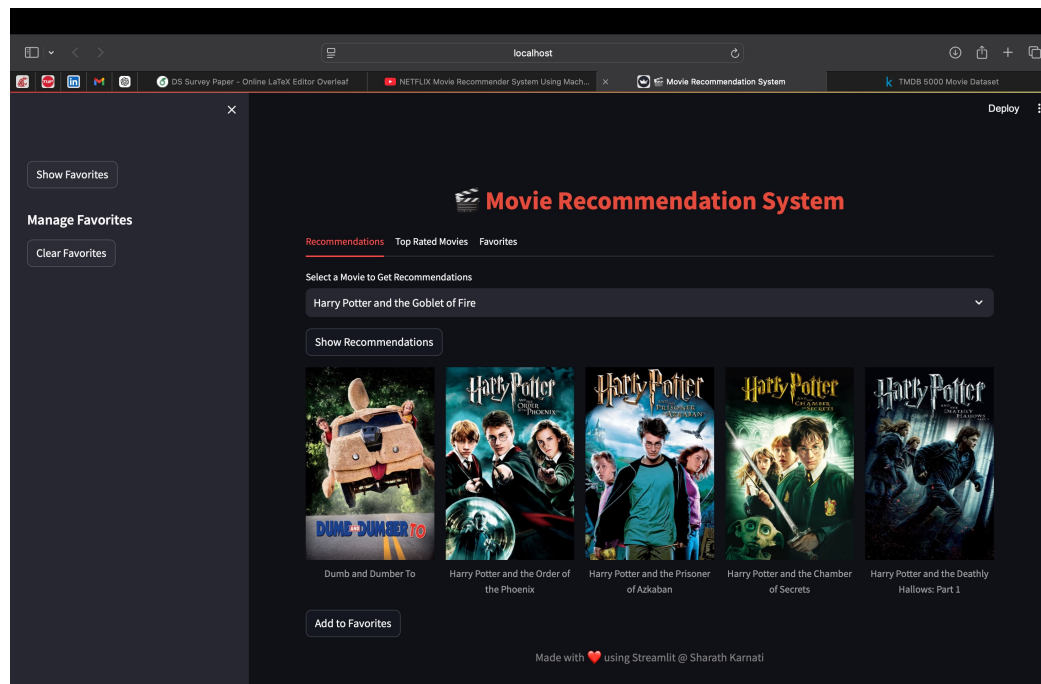- Pandas, NumPy, and Pickle (for data processing and model storage)
- **Recommendation Algorithm:**
- Content-based filtering using cosine similarity.
- **Key Features:**
- Movie selection from dropdown.
- Displays top 5 recommended movies with posters.
- Option to add movies to favorites.

App Workflow

- **Step 1:** User selects a movie from the dropdown or type their choice.

- **Step 2:** System fetches similar movies using pre-computed similarity scores.

- **Step 3:** Displays recommendations with movie posters.

- **Step 4:** User can add favorites, which are saved in session state.

DEMO

Conclusion and Future Work

- **Conclusion :** Successfully developed a functional and visually appealing movie recommendation system.

- **Future Enhancements :**

- Add collaborative filtering for better recommendations.

- Allow user reviews and ratings.

- Deploy the app for public use.

Thank You