📘 MOVIE RECOMMENDATION SYSTEM – PROJECT REPORT

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INTERNSHIP PLATFORM: Codec Technologies
PROJECT TITLE: Movie Recommendation System
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1. 💡 Project Overview

The Movie Recommendation System is a Python-based application that suggests movies to users based on their input. It supports two main types of recommendations:

- **Genre-Based Filtering:** Recommends movies based on the genre selected by the user (e.g., Action, Comedy).
- **Content-Based Filtering:** Recommends movies similar to a selected movie based on shared genres.

This project was developed as part of the internship at Codec Technologies, aimed at enhancing understanding of basic data handling, filtering techniques, and recommendation logic.

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2. 🛠 Technologies Used

- **Programming Language:** Python 3
- **Libraries:** Pandas, NumPy
- **Data Format:** CSV
- **IDE:** Visual Studio Code
- **Version Control:** GitHub (for publishing)

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3. 📁 Project Structure

```
movie-recommendation-system/
        ├── data/
        │   └── movies.csv
        ├── movie_recommender.py
        ├── README.txt
        └── project_report.docx
```

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4. 📌 Features Implemented

- ✅ Genre-based filtering using string matching
- ✅ Content-based filtering using genre similarity
- ✅ User-interactive command-line interface
- ✅ Clean and modular Python code
- ✅ Dataset stored and loaded from a CSV file

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5. 💉 Sample Usage

Option 1: Genre Recommendation

- Input: Comedy
- Output: Returns a list of movies tagged as "Comedy"

Option 2: Similar Movie Recommendation

- Input: Toy (matches "Toy Story")
- Output: Returns movies with overlapping genres like Animation, Fantasy, etc.

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6. 📈 Outcome

The project helped reinforce practical Python skills, data handling using pandas, and an introduction to basic recommendation system logic. It also demonstrated how to deploy and document a working project on GitHub.

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7. 📤 GitHub Link

https://github.com/Felberta/movie-recommendation-system

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8. 🙏 Acknowledgment

I would like to thank **Codec Technologies** for providing this internship opportunity and hands-on project.

Submitted by:
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