Group Recommendation System using Machine Learning

Project Overview

This project develops a **Group Recommendation System** using Machine Learning that provides personalized suggestions for groups based on individual preferences. The system aggregates member interests to generate optimized recommendations, enhancing group decision-making and user experience.

Features

- Personalized recommendations for groups
- Aggregates individual preferences into group suggestions
- Utilizes machine learning algorithms to predict group interests
- User-friendly interface for input and output

Technologies Used

- Python
- Machine Learning Libraries: scikit-learn, pandas, numpy
- Optional: Flask/Django for interface

How It Works

1. Collect individual user preferences.
2. Apply machine learning algorithms to identify patterns.
3. Aggregate preferences to generate group recommendations.
4. Output optimized suggestions for the group.

Installation

1. Clone the repository:

```
git clone https://github.com/your-username/group-recommendation.git
```

2. Install dependencies:

```
pip install -r requirements.txt
```

Usage

1. Run the main script:

```
python main.py
```

2. Input user preferences as prompted.
3. View group recommendations.

Contributing

Feel free to submit issues or pull requests to improve this project.

Author

This project is developed by a B.Tech student from **NIT Warangal**.

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