SereneIQ

## MUSIC RECOMMENDATION SYSTEM USING AI/ML

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INTRODUCTION

- Growing popularity of music streaming platforms
- Challenges in music discovery due to large datasets
- Role of recommendation systems in personalized music delivery
- Brief overview of AI/ML in recommender systems
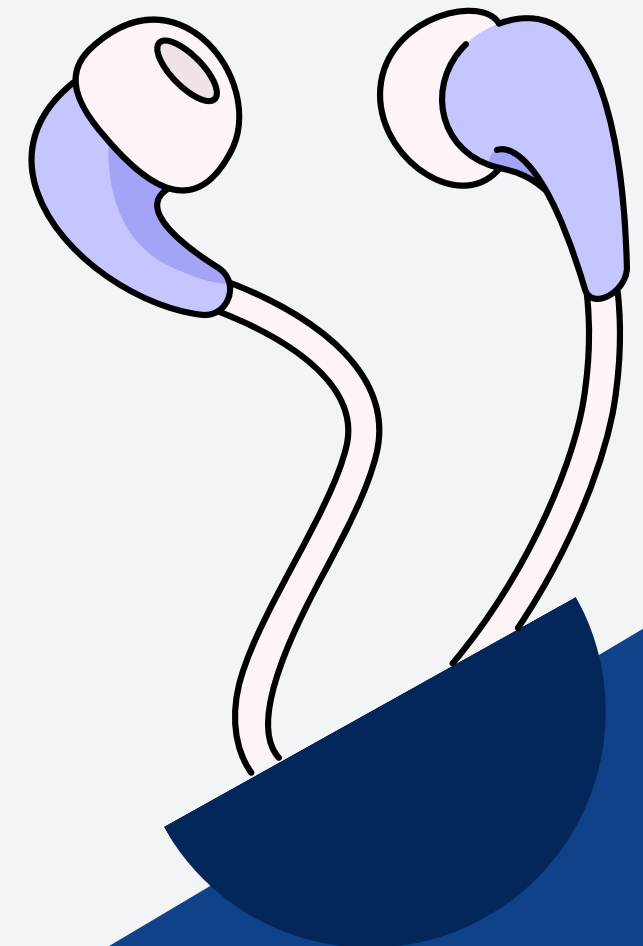
PROBLEM STATEMENT

1. Users struggle to find music tailored to their tastes

2. Need for an intelligent system that suggests relevant songs

3. Improve user satisfaction and engagement on music platforms

OBJECTIVE

1. Build a system that recommends songs based on user preferences

2. Use AI/ML techniques for accurate recommendations

3. Develop a user-friendly interface for easy interaction

4. Evaluate system performance with suitable metrics

DATASET DESCRIPTION

- Source of dataset (e.g., Million Song Dataset, Kaggle)
- Data types: song features (genre, tempo, loudness), user ratings
- Size of dataset and sample statistics
- Data fields description
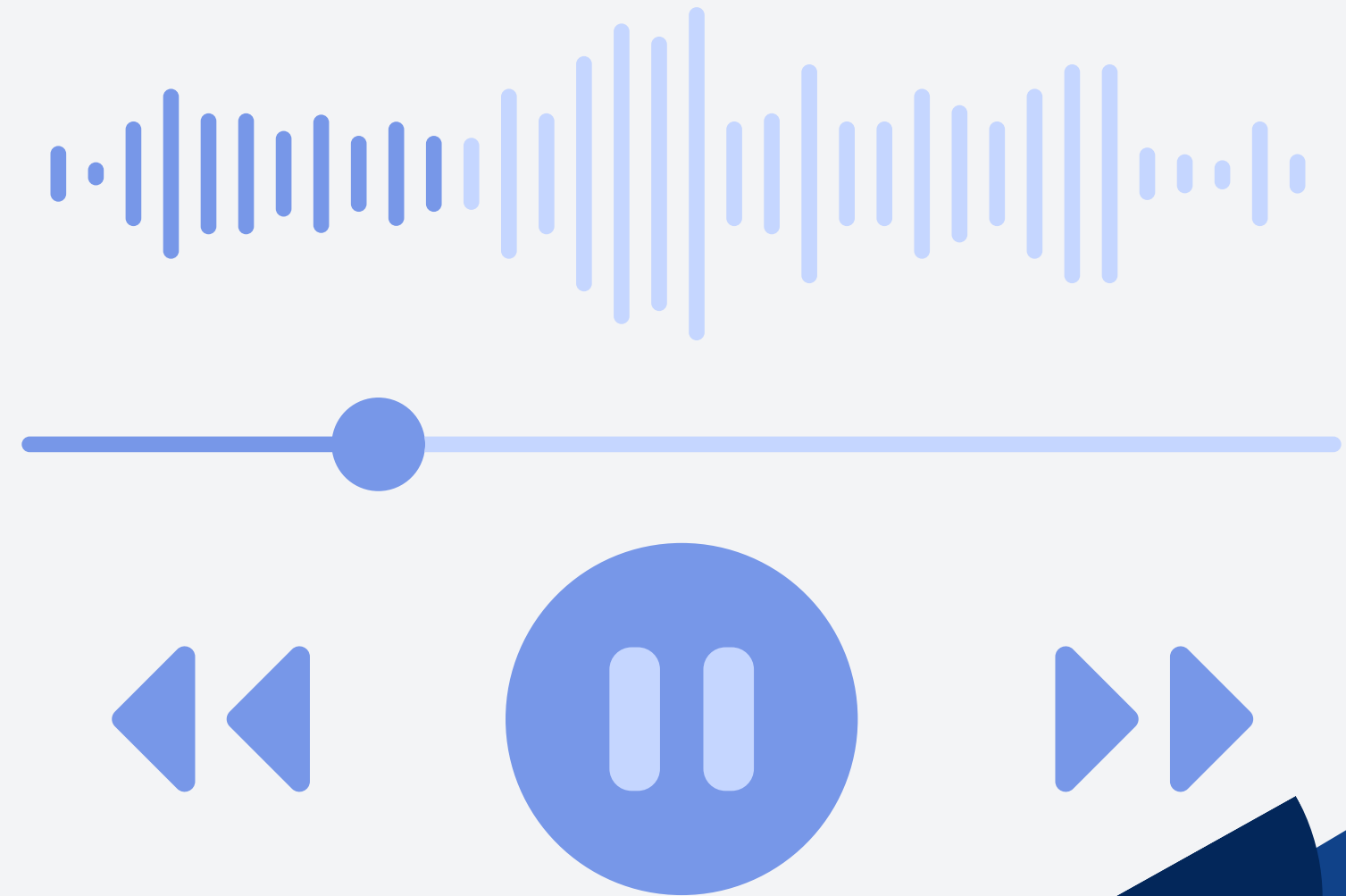
APPROCHES

Algorithm Used
Content-Based Filtering using TF-IDF + Cosine Similarity

TF-IDF extracts the important words (features) from songs' metadata.

Cosine Similarity finds how close the songs are to each other based on those features.

It does not rely on user behavior, just song content.

🎧 Music Recommendation System

🎵 Choose a song you like

20-20 ▾

🔍 Show Recommendations

🎧 Music Recommendation System

🎵 Choose a song you like

20-20 ⌄

Channa Mereya

Char Baj Gaye (Party Abhi Baaki Hai)

Character Dheela

Chaska

Chaudhvin Ka Chand

Cheez Badi

Chennai Express Mashup

🎧 Music Recommendation System
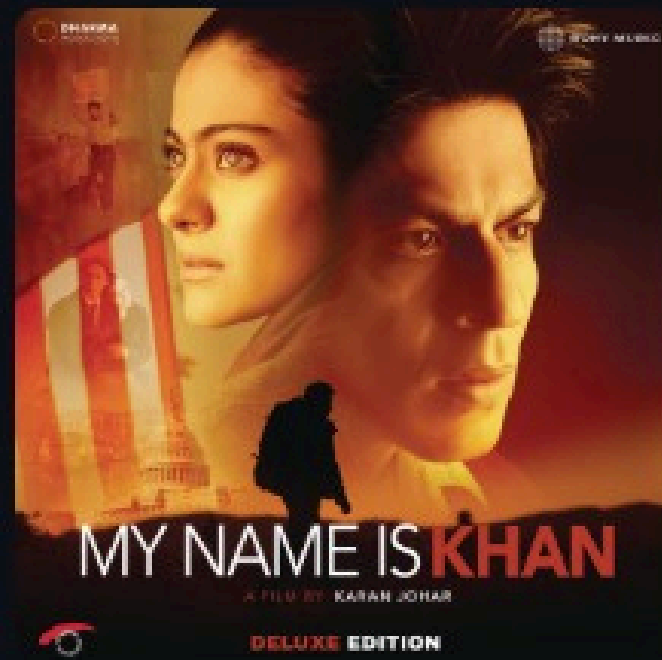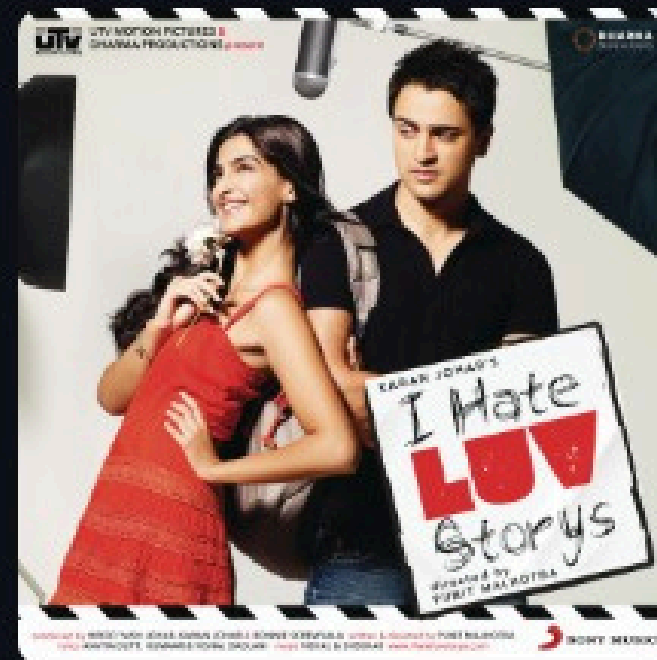
🎵 Choose a song you like

Bin Tere ⌄

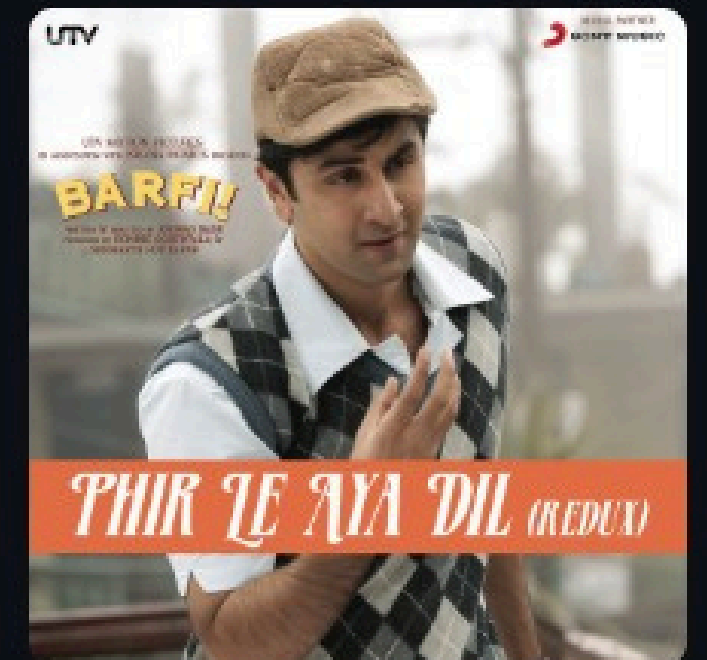🔍 Show Recommendations

| Jab Mila Tu | Tere Naina | Bahara | Tu Hi Mera | Phir Le Aya Dil |

CONCLUSION

1. Recap of the system and its goals
2. Importance of AI/ML in music recommendation
3. Summary of results and impact on user engagement
4. Final thoughts

THANK YOU