RECOMMENDER SYSTEM

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INTRODUCTION

A recommendation system (or recommender system) is a type of information filtering tool that predicts and suggests items or content that a user might be interested in. These systems are commonly used by online platforms to enhance user experience by providing personalized recommendations.

TYPES OF RECOMMENDER SYSTEMS:

- Content-Based Filtering
- Collaborative Filtering
- Hybrid Systems(combine collaborative and content-based)

CONTENT-BASED FILTERING:

• This approach recommends items similar to those the user has liked in the past, based on item attributes.

• Advantages: Doesn't rely on other users, which helps with the cold start problem.

• Challenges: It's hard to make diverse recommendations, as users are typically shown content similar to what they've already consumed.

COLLABORATIVE FILTERING:

• This approach relies on data from multiple users to make recommendations. It identifies similar users and suggests items based on user preferences within the entire user base.

• Advantages: It can introduce a wider variety of recommendations and works even if the items don't have detailed feature information.

• Challenges: It requires a large amount of user data and can struggle with new users or items (known as the "cold start" problem).

CASE STUDY:

Recommendation System in phonepe

USING CONTENT-BASED FILTERING:

• Quick Access to Frequent Payments.

• Bill payments reminders.

• Personalized suggestions.

Recharge suggestions based on past activity

USING COLLABORATIVE FILTERING:

• User Similarity: Find users with similar transaction patterns or preferences by comparing profiles.

• Group users into clusters of similar interests. And gives the

recommendations based on.

CONCLUSION

- By combining these two methods, PhonePe can:
- Content-based filtering ensures users see services they're already interested in, like recurring bill payments or favorite shopping categories.
- Collaborative filtering adds variety by suggesting services that other users with similar preferences are exploring, helping users discover new but likely relevant options.

THANKYOU