Abstract

A Recommender System is now becoming main decision maker in today's world. It provides information for specific items such as books, news, clothes and many more. Personalization is now becoming common term for improving e-commerce services and attract more users. Today's recommender system provides suggestion for specific items but drawback that service provider can increases the ratings of specific product and unnecessarily popularity increases. This leads to misguiding the users while purchasing some products, so privacy is violated. Our main aim is to preserve privacy, so we have used homomorphic encryption scheme which uses no. of public private keys to preserve privacy. We have used PSP to remove active participation of user in encryption and decryption. In this paper we propose a cryptographic solution for preserving privacy of customers in recommender system. In short private information of customer is kept secret and service provider generates recommendation by processing encrypted data.

References

- "Generating Private recommendation using Homomorphic Encryption and Data..."
Privacy Preserving Dynamic Recommender System


T. Bianchi, A. Piva, and M. Barni, "Composite signal representation for fast and

Index Terms

Computer Science

Security

Keywords

Homomorphic Encryption Dynamic Recommender System.