



Homomorphic Recommendations for Data Packing

Y. Bhargav¹, P. Sreenivasa Moorthy²

¹M.Tech. Student, CSE Dept, CMR Institute of Technology, Hyderabad, A.P
Email-id: bhargav.y9959@gmail.com

²Associate Professor, CSE Dept., CMR Institute of Technology, Hyderabad, A.P
Email-id:moorthypsm@gmail.com

Abstract

Recommender systems have become an important tool for personalization of online services. Generating recommendations in online services depends on privacy-sensitive data collected from the users. Traditional data protection mechanisms focus on access control and secure transmission, which provide security only against malicious third parties, but not the service provider. This creates a serious privacy risk for the users. In this paper, we aim to protect the private data against the service provider while preserving the functionality of the system. We propose encrypting private data and processing them under encryption to generate recommendations.

Index Terms

Homomorphic encryption; privacy; recommender systems; secure multiparty computation

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