AN EFFICIENT PRIVACY PRESERVING RELEVANCE KEYWORD SEARCH METHOD

MOTIVATION

- As we step into the big data era, terabyte of data are produced world-wide per day. Enterprises and users who own a large amount of data usually choose to outsource their precious data to cloud facility in order to reduce data management cost and storage facility spending. As a result, data volume in cloud storage facilities is experiencing a dramatic increase
- These large connection of data are stored in an encrypted form and are classified under different categories.
- An efficient search algorithm is needed to provide the user with the accurate and useful search results when they want to access some file on the cloud or any system.

BASIC CONCEPTS

- Searching algorithm: any algorithm which solves the search problem, namely, to retrieve information stored within some data structure, or calculated in the search space of a problem domain. The appropriate search algorithm often depends on the data structure being searched, and may also include prior knowledge about the data.
- Data Encryption and Decryption: Encryption is the process of translating plain text data into something that appears to be random and meaningless. Decryption is the process of converting ciphertext back to plaintext.

OBJECTIVE

- The objective of our project is to design a search functionality algorithm which takes the keywords of the document name as input and then searches the file from a large collection of data files on a server.
- The algorithm needs to find the files which contain the keywords given as input and display the list of the files that match the user search criteria.
- New files added to the collection are saved under relevant category along with a file containing the tags which represents the content of the file.
- An encryption algorithm also needs to be implemented in order to provide security for the data files.