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### Abstract

Data is any type of stored digital information. Security is about the protection of assets. Data security refers to protective digital privacy measures that are applied to prevent unauthorized access to computers, databases and websites. Cryptography is evergreen and developments. Cryptography protects users by providing functionality for the encryption of data and authentication of other users. Compression is the process of reducing the number of bits or bytes needed to represent a given set of data. It allows saving more data. The project aims to implement various cryptography algorithm for data security. The data will be first compressed using compression techniques and then encryption techniques will applied and then comparative analysis will be carried out for different combinations of compression and encryption techniques. If encryption and compression are done at the same time then it takes less processing time and more speed.

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Computer Science

### Index Terms

Security

### Keywords

Cryptography   Compression   Run length   Huffman   LZW   Arithmetic coding   RC4

Caesar Cipher

DES.