



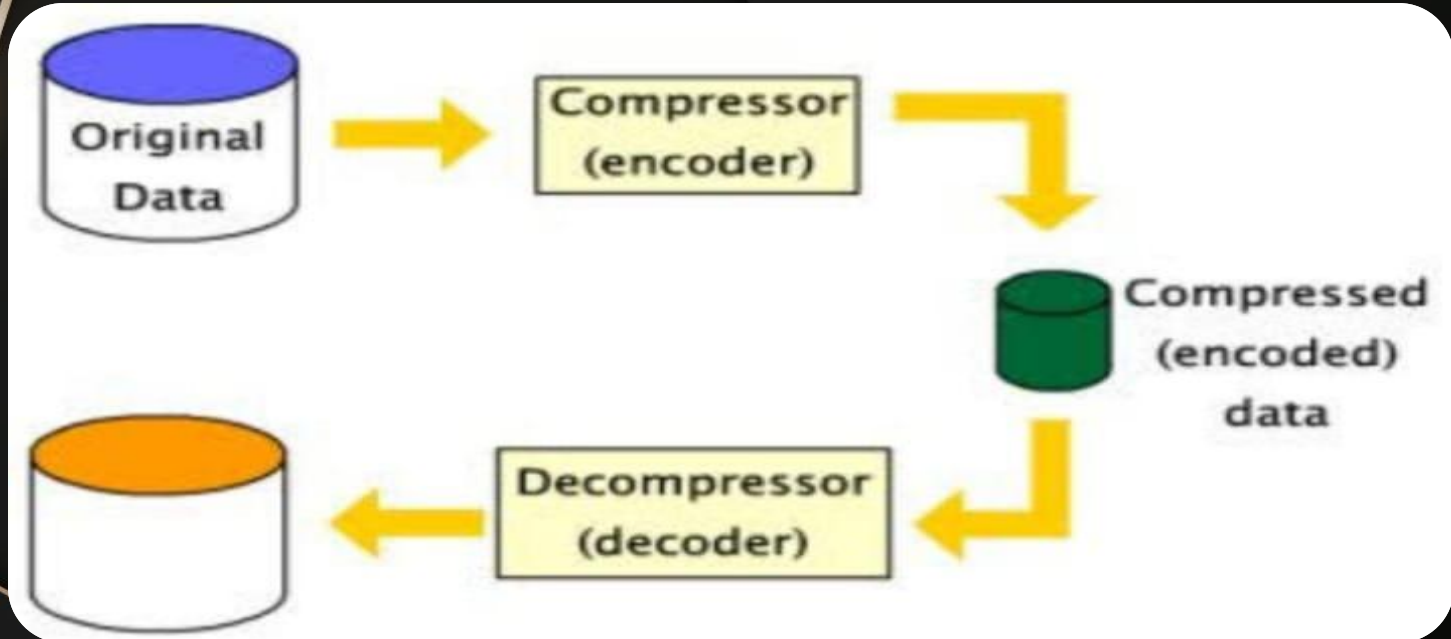
Data Compression

Reducing the size of Message to be sent
from one device to another using data
Huffman Algorithm.

Introduction

- ▣ Data Compression is the process of encoding given Data to reduce it's Size
- ▣ There are two types of Data Compression
 - ▣ 1 – Lossy Data Compression
 - ▣ 2- Lossless Data Compression

Implementation



Details

- ▢ Algorithm is Named After David Huffman Who invented it in 1952.
- ▢ Time complexity of the Algorithm is $O(N \log N)$
- ▢ More efficient and Use less bits

Applications

- ▣ Used for Reducing the size of data which leads to less cost of message transfer between devices.
- ▣ It is Used for Conventional Compression Formats Like GZIP,BZIP2,PKZIP,etc.

Demerits

- ❑ It takes a significant amount of time to Encode and Decode the data .
- ❑ An Encoding and Decoding process is required to be performed at sender and receiver side which results in time delay.



THANK YOU