SMS Compression using Zstandard

REVIEW 2

UNDER THE GUIDANCE OF DR. BALAJI N

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Introduction

SMS communication remains widely used for notifications, alerts, and messages.

However, SMS length limitations and transmission costs make compression essential.

Zstandard offers high-speed, lossless text compression suited for this purpose.

Problem Statement

SMS messages are limited in length and cost per segment.

Long messages without compression increase cost and time.

Need for efficient, lossless compression to optimize SMS transmission.

Objective

- Implement efficient SMS text compression using Zstandard.

- Reduce transmission time and cost while maintaining data integrity.

- Provide a simple user interface for text compression and decompression.

Existing System vs Proposed System

Existing: Uses standard uncompressed text transmission; costly and slower.

Proposed: Integrates Zstandard for fast, lossless compression before sending.

Outcome: Reduced SMS size, faster transmission, and cost optimization.

THANK YOU