

# SIDDAGANGA INSTITUTE OF TECHNOLOGY – TUMAKURU 572103

## *Department of Information Science and Engineering*

### *Mini Project Synopsis for the Academic Year 2025–26*

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**Title of the Project:** Self-Destructing Data Vault for Secure and Ephemeral Data Storage

#### **Problem Statement:**

With the rapid increase in digital communication and data sharing, sensitive information often remains stored on devices or servers longer than necessary, exposing it to unauthorized access or data breaches. Existing encryption and cloud security systems protect data during transmission and storage but fail to ensure its timely destruction after use. This project aims to design a **Self-Destructing Data Vault** — a system that ensures **automatic deletion of data** after a predefined duration or co...

#### **Abstract:**

The **Self-Destructing Data Vault** provides a privacy-first solution for securely storing and sharing data that automatically deletes itself after a set period or condition. It uses encryption and secure deletion protocols to ensure that once the data expires, it cannot be recovered by any means. This empowers users with full control over their data lifecycle and minimizes privacy risks in both personal and enterprise use cases.

#### **Objectives:**

- To develop a secure vault system that allows users to store and share sensitive data with a built-in self-destruction mechanism after a set time or condition.
- To ensure complete data privacy and confidentiality through strong encryption and automatic deletion protocols that prevent unauthorized recovery.
- To provide users with full control over their data lifecycle, enabling secure, temporary access and permanent removal without manual intervention.

#### **Applications:**

- Secure temporary file sharing for personal, corporate, or government communications.
- Protection of sensitive credentials and documents, such as passwords, legal files, or financial data.
- Privacy-focused messaging and cloud storage systems where data automatically disappears after use.

**Signatures of Students:**

**Name and Signature of Guide with Date:**