

# SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore-560057

*Department of Computer Science and Engineering*

## Certificate



Certified that the project work entitled "INCREASING DATA PRIVACY USING SELF-DESTRUCTIVE FRAMEWORK" carried out by INDHU.S (1SG11CS029), KAVYASHREE.V (1SG11CS033), KRISHIKA.R(1SG11CS036), KEERTHI.K(1SG11CS098), bonafide students of Sapthagiri College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum during the academic year 2014-15. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

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28/5/15

Signature of the Guide

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## ABSTRACT

Personal data stored in the Cloud may contain account numbers, passwords, notes, and other important information that could be used and misused by a miscreant, a competitor, or a court of law. These data are cached, copied, and archived by Cloud Service Providers (CSPs), often without user's authorization and control. Self-destructing data mainly aims at protecting the user data's privacy. All the data and their copies become destructed or unreadable after a user-specified time, without any user intervention. In addition, the decryption key is destructed after the user-specified time. Here *SeDas* is presented as a system that meets this challenge through a novel integration of cryptographic techniques with active storage techniques based on T10 OSD standard. Through functionality and security properties evaluation of the *SeDas* prototype, the results demonstrate that *SeDas* is practical to use and meets all the privacy-preserving goals described.