VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI



A PROJECT REPORT ON "ADVANCED DATA INTEGRITY CHECKING MECHANISM IN CLOUD"

Submitted in partial fulfillment for the award of Degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE & ENGINEERING

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING CERTIFICATE

This is to certify that the project entitled "Advanced Data Integrity Checking Mechanism in Cloud" has been successfully completed by

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the bonafide students of DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

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ABSTRACT

Cloud computing is a general term for the delivery of hosted services over the Internet. Using the cloud services both users time and money is saved. As an important application in cloud computing, cloud storage offers user scalability, flexibility and high quality data storage and computation services.

A growing number of data owners choose to outsource data files to the cloud. Because cloud storage servers are not fully trustworthy, data owners need dependable means to check the possession for their files outsourced to remote cloud servers. To address this crucial problem, data integrity checking mechanism has been presented. But many existing schemes have vulnerabilities in efficiency or data dynamics. However, there are some security issues to be solved for personal users and enterprises to store data in the cloud.

The fact is that users will not have any physical control over the outsourced data. The cloud user is concerned about the integrity of his data stored in the cloud as it can be attacked by attacker. The aim of the project is to suggest an efficient public auditing technique using Third Party Auditor (TPA) to verify the integrity of data stored in the cloud. The proposed auditing scheme makes use of AES algorithm for encryption and Secure Hash Algorithm (SHA-1) algorithm to generate verification metadata or message digest for data integrity check.

Dynamic operation