

SAPTHAGIRI COLLEGE OF ENGINEERING

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Department of Computer Science and Engineering



Certificate

Certified that the Project Work entitled **"CLOUD DATA SHARING WITH GROUP USERS USING NPP AUDITING SCHEME"** carried out by **AAKASH KUMAR SINHA (1SG14CS001)**, **ADARSH BHAT (1SG14CS005)**, **BISWADEEP BHATTACHARJEE (1SG14CS022)**, **BRAJESH JHA (1SG14CS023)**, 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, Belagavi during the academic year 2017-2018. 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 (10CS85) prescribed for the said degree.


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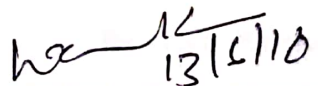

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ABSTRACT

In this digital world where everything is going to digital platforms, data is being generated at enormous pace. The management of data and data integrity are of prime concern for the enterprises. Cloud provides a wide range of services. Today, cloud is extensively being used for providing development environment, space to store the data of big enterprises, etc. So, the integrity of shared data is of utmost importance. Here we discuss about public auditing scheme based data sharing between group of users and cloud server. An authentication mechanism is proposed, based on which every group member of a group are given their access policies. Security mechanisms are provided for shared data with some schemes that have been designed to allow public verifiers to verify the integrity of data users. Here, mainly the communication is focused between the group of users and server. We propose a new privacy-aware public auditing mechanism for shared cloud data. Access control mechanism is provided, by virtue of which a user can download the file but cannot open the file unless the permission is provided by the Third Party Auditor (TPA). Thus, we aim to achieve the integrity of shared data among group users in cloud.