

A
Major Project Report
on
**SECURE DATA TRANSFER AND DELETION
FROM COUNTING BLOOM FILTER IN
CLOUD COMPUTING**

Submitted to
Jawaharlal Nehru Technological University, Hyderabad
in partial fulfillment of the requirements for the award of Degree of
Bachelor of Technology
in
Computer Science & Engineering
by

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2022-2023

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project entitled "SECURE DATA TRANSFER AND DELETION FROM COUNTING BLOOM FILTER IN CLOUD COMPUTING" is submitted by **CH. Hima Bindu (196Y1A0519)**, **G. Rachana (196Y1A0535)**, **M. Manogna (196Y1A0560)** and **D. Akhila (196Y1A0528)** in the partial fulfillment of requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering during academic year 2022-23.


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ABSTRACT

With the rapid development of cloud storage, an increasing number of data owners prefer to outsource their data to the cloud server, which can greatly reduce the local storage overhead. Because different cloud service providers offer distinct quality of data storage service, e.g., security, reliability, access speed and prices, cloud data transfer has become a fundamental requirement of the data owner to change the cloud service providers. Hence, how to securely migrate the data from one cloud to another and permanently delete the transferred data from the original cloud becomes a primary concern of data owners. To solve this problem, we construct a new counting Bloom filter-based scheme in this paper. The proposed scheme not only can achieve secure data transfer but also can realize permanent data deletion. Additionally, the proposed scheme can satisfy the public verifiability without requiring any trusted third party. Finally, we also develop a simulation implementation that demonstrates the practicality and efficiency of our proposal.



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