A

Major Project Report

on

SECURE AND EFFICIENT PRIVACY PRESERVING PROVABLE DATA POSSESSSION IN CLOUD STORAGE

Submitted to

Jawaharlal Nehru Technological University, Hyderabad

in partial fulfilment of the requirements for the award of Degree of

Bachelor of Technology

in

Computer Science & Engineering

By

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2022-2023

S.R.I.T. FOR WOMEN ★ WARANGAL ★

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project entitled **"SECURE AND EFFICIENT PRIVACY PRESERVING PROVABLE DATA POSSESSSION IN CLOUD STORAGE"** is submitted by ***B.Divya (196Y1A0517), B.Navya (196Y1A0511), B.Ramya (196Y1A0507)*** *and* ***B.Jyothi (196Y1A0505)*** 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

Cloud computing is an emergent paradigm to provide reliable and resilient infrastructure enabling the users (data owners) to store their data and the data consumers (users) can access the data from cloud servers. This paradigm reduces storage and maintenance cost of the data owner. At the same time, the data owner loses the physical control and possession of data which leads to many security risks.

Therefore, auditing service to check data integrity in the cloud is essential. This issue has become a challenge as the possession of data needs to be verified while the privacy. To address these issues this work proposes a secure and efficient privacy preserving provable data possession (SEPDP). Further, we extend SEPDP to support multiple owners, data dynamics and batch verification. The most attractive feature of this scheme is that the auditor can verify the possession of data with low computational overhead.

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