

SAPTHAGIRI COLLEGE OF ENGINEERING

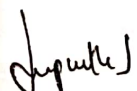
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Department of Computer Science and Engineering




Certificate

Certified that the Project Work entitled **"QUICK PHRASE SEARCH OVER ENCRYPTED DATA ON CLOUD"** carried out by **KARAN KUMAR SINGH (1SG14CS040)**, **KUSHAL LOHAN (1SG14CS050)**, **ANMOL ADUKIA (1SG14CS013)**, bonafide students of Sapthagiri College 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. 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.


Signature of the Guide
Supreetha S
Asst. Professor


Signature of the HOD
Dr. Yogish H K
Professor & Head


Signature of the Principal
Dr. K L Shivabasappa
Principal

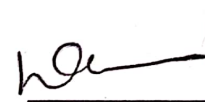
EXTERNAL EXAMINATION:

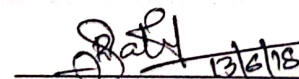
Name of the Examiners

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Signature with Date


13/6/18


13/6/18

ABSTRACT

Cloud computing has generated much interest in the research community in recent years for its many advantages, but has also raised security and privacy concerns. The storage and access of confidential documents have been identified as one of the central problems in the area. In particular, many researchers investigated solutions to search over encrypted documents stored on remote cloud servers. While many schemes have been proposed to perform conjunctive keyword search, less attention has been noted on more specialized searching techniques. In this paper, we present a phrase search technique based on Bloom filters that is significantly faster than existing solutions, with similar or better storage and communication cost. This technique uses a series of n -gram filters to support the functionality. The scheme exhibits a trade-off between storage and false positive rate, and is adaptable to defend against inclusion-relation attacks. A design approach based on an application's target false positive rate is described.