

# SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY

Sheriguda(V), Ibrahimpatnam(M), R.R District

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### PROJECT: 03

#### *A Hybrid Cloud Approach for Secure Authorized Deduplication*

#### **Abstract**

Data deduplication is one of important data compression techniques for eliminating duplicate copies of repeating data, and has been widely used in cloud storage to reduce the amount of storage space and save bandwidth. To protect the confidentiality of sensitive data while supporting deduplication, the convergent encryption technique has been proposed to encrypt the data before outsourcing. To better protect data security, this paper makes the first attempt to formally address the problem of authorized data deduplication. Different from traditional deduplication systems, the differential privileges of users are further considered in duplicate check besides the data itself. We also present several new deduplication constructions supporting authorized duplicate check in hybrid cloud architecture. Security analysis demonstrates that our scheme is secure in terms of the definitions specified in the proposed security model. As a proof of concept, we implement a prototype of our proposed authorized duplicate check scheme and we show that our proposed authorized duplicate check scheme incurs minimal overhead compared to normal operations.

<b>Roll Number</b>	<b>Name of the student</b>	<b>Internal Guide Name</b>
13X31A0560	S.SRILAKSHMI	<b>DR.K.S.SADASIVA RAO</b>
13X31A0555	P.SHRESHTA	
13X31A0574	CH.VINAY	