

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI**



**A PROJECT REPORT ON
“SECURE DATA SHARING IN CLOUD FOR
MEDICAL DATA”**

Submitted in partial fulfillment for the award of Degree of,

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE & ENGINEERING

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CERTIFICATE

This is to certify that the project entitled **"SECURE DATA SHARING IN CLOUD FOR MEDICAL DATA"** has been successfully completed by

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ABSTRACT

There is a significant increase in the amount of data loss in corporate servers in the cloud environments. This includes password compromise in the cloud and account hijacking, thus leading to severe vulnerabilities of the cloud service. Current authentication methods require the users to use their credentials to gain access to cloud service. However once the credential is compromised, the attacker will gain access to the cloud service easily. This paper proposes a novel scheme that does not require the user to present his password, and yet is able to prove his ownership of access to the cloud service using a variant of zero-knowledge proof. A challenge-response protocol is devised to authenticate the user, requiring the user to compute a one-time pad (OTP) to authenticate himself to the server without revealing password to the server.

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