**TITLE: BLOCKCHAIN BASED CERTIFICATE VALIDATION**

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**ABSTRACT**

In this project to secure academic certificate and for accurate management and to avoid forge certificate we are converting all certificates into digital signatures and this digital signatures will be stored in Blockchain server as this Blockchain server support tamper proof data storage and nobody can hack or alter its data and if by an chance if its data alter then verification get failed at next block storage and user may get intimation about data alter.

In Blockchain technology same transaction data stored at multiple server with hash code verification and if data alter at one server then it will detected from other server as for same data hash code will get different. For example in Blockchain technology data will be stored at multiple servers and if malicious users alter data at one server then its hash code will get changed in one server and other servers left unchanged and this changed hash code will be detected at verification time and future malicious user changes can be prevented.

In Blockchain each data will be stored by verifying old hash codes and if old hash codes remain unchanged then data will be consider as original and unchanged and then new transaction data will be appended to Blockchain as new block. For each new data storage all blocks hash code will be verified.

Software And Hardware Requirements

HARDWARE REQUIREMENTS:

* System : MINIMUM i3.
* Hard Disk : 40 GB.
* Ram : 4 GB.

SOFTWARE REQUIREMENTS:

* Operating System : Windows 8
* Coding Language : Python 3.7
* Intel :i3

**Internal guide HOD**