

# **A DECENTRALIZED CLOUD STORAGE SYSTEM THROUGH PEER TO PEER NETWORKING USING BLOCKCHAIN**

*Rishav Kumar ([rachana.rishav@gmail.com](mailto:rachana.rishav@gmail.com))*

Student (class – XIIth), DPS Ruby Park, Kolkata

## **Abstract:**

A Decentralized Cloud Storage solution has been developed for efficient, fast, and secure access to users by implementing the concept of Blockchain universal ledger in an open Peer to Peer Network. It aims to bring more reliable, cheaper, and faster cloud access to people at remote locations from the data centers, who cannot utilize server-based cloud solutions even when connected to the internet grid, due to very high latency, poor internet downlink speeds, and packet loss due to signal degradation. It is an open Peer to Peer Networking Solution that utilizes the unused space of the peers' hard drives to securely store uploaded data as fragments. Data integrity and security is ensured by the Blockchain model, where retrieving data fragments is verified by the peers and a block is added to the universal data access ledger for every successful data retrieval.

An abstract video representation of the project: [https://youtu.be/z\\_fb1Dc6RU8](https://youtu.be/z_fb1Dc6RU8)