



**International Conference on Latest Trends in Engineering,  
Management, Humanities, Science & Technology (ICLTEMHST -2022)  
27<sup>th</sup> November, 2022, Guwahati, Assam, India.**

**CERTIFICATE NO : ICLTEMHST /2022/C11221025**

**A COMPARATIVE STUDY OF BLOCKCHAIN PROTOCOLS FOR  
IOT DATA INTEGRITY**

**JITENDRA SINGH DODIYA**

Research Scholar, Department of Electronics Engineering  
Kalinga University, Naya Raipur, Chhattisgarh, India.

**ABSTRACT**

Data security, dependability, and integrity have become major issues due to the extraordinary amount of data generated by the Internet of Things (IoT), which has grown at an exponential rate. One promising solution to these problems is blockchain technology, which is both decentralized and unchangeable. In this work, we provide a bilinear architecture for Internet of Things (IoT) data that is based on blockchain technology. With respect to the data integrity in the internet of things (IoT), the suggested blockchain method outperforms the highly efficient blockchain-based cloud data integrity verification scheme (DICF). Our approach outperforms DICF in terms of memory use, end-to-end latency, and signature generation time, according to the findings.

***Keywords: Data Integrity, Blockchain, Cloud, Memory, Security***