

Big Data Analysis and Data Mining

August 09-10, 2021

WEBINAR

Mahadev Gawas, J Comput Eng Inf Technol 2021, Volume 10

How blockchain technology harmonizes big data trading system in businesses and organization

Mahadev Gawas

Directorate of Higher Education, India

Statement of the Problem: Data is a very important resource in businesses and organizations. Nevertheless, current data trading platforms are not entirely reliable due to issues of data privacy. Many organizations depend on emerging technologies like Blockchain and Big Data. Both these technologies may seem to be mutually exclusive, but in the coming years, they are likely to fundamentally change how businesses and organizations are run. Big data is a collection of enormous datasets. Given the fact that the data is tremendously large and complex, it can't be processed by conventional data processing systems. Most businesses make use of Cloud-based web storage to document and store this entire data. This can be expensive for businesses and organizations. Examining this information to anticipate market reaction is one of the significant jobs in Big Data Analytics. This is where Blockchain comes in support of Big Data. Blockchain proves to be an efficient method to store data online. Furthermore, the decentralized network can provide access to numerous users. Different users in a transaction store the data in different records. Blockchain provides access to a single network for all these users. The transactions are further recorded in the network and can be validated by the various users. As all the data will be stored in the blockchain, it can be easy to get access to this data. Blockchain provides businesses and organizations to find the reliability of the generated data. Blockchain helps in data integrity as there can be instances of individuals messing with the data to impact the expectation in support of them. The unalterable property of blockchain guarantees that the data stored in the blockchain network can never be altered. The encrypted and decentralized storage of the data in the blockchain network makes it very difficult for any unauthorized user to access the data.

Methodology & Theoretical Orientation:

An adaptive blockchain is designed to eliminate the computational complexity, thereby alleviating the computational resource.

Blockchain-based decentralized data trading system is implemented in which data trading is completed by smart contract-based data matching, at Payame Noor University in Scopus:

Findings: The decentralized and immutable ledger with advanced technologies ensures data integrity and bigdata analytics provides better insights for making valuable predictions for massive data accumulation.

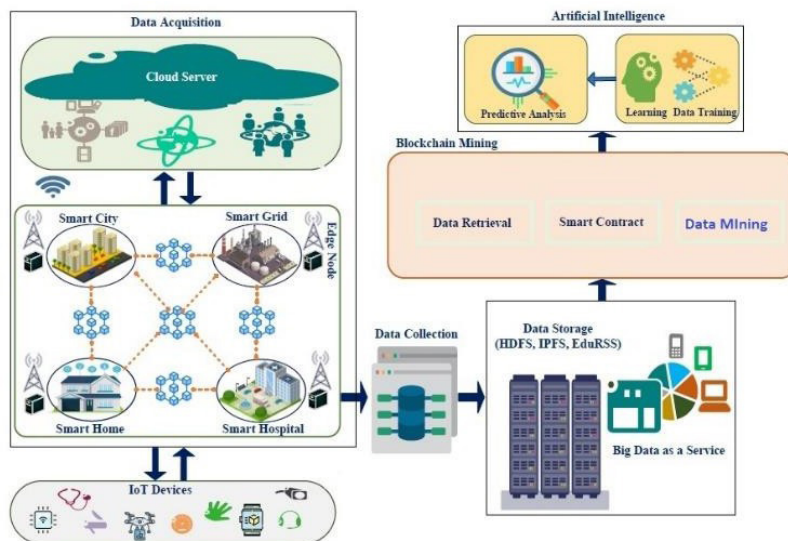
Conclusion & Significance: Businesses involved in a Big Data trading will have access to the same quantity and quality of data. This in turn, would accelerate data acquisition, sharing, the quality of data and data analytics.

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The immutability property of the blockchain ensures that it is next to impossible to tamper which increases the data integrity in business.



Biography

Dr. Mahadev Gawas is currently Assistant professor in Research and Innovation, State Higher Education Council, Directorate of Higher Education Govt of Goa, India. He has more than 13 years of experience in research. He has expertise in Machine Learning and Blockchain technology. He has worked on several sponsored projects He has several papers published in SCI and few under submission on Artificial Intelligence, Edge computing, Blockchain, and Machine Learning. He has attended more than 10 core ranking International conferences across the world to share the research findings. He has received several fellowships and travel grant sponsorships from Microsoft, CSNDSP etc. He has reviewed more than 25 SCI journals from Elsevier, Springer, and IEEE. He has delivered research talks in several universities of research.