Machine Learning Models Powered by Blockchain for Safe IoT Data Analytics

Dr. Savya Sachi
Assistant Professor, Department of IT
L. N. Mishra College of Business Management, Muzaffarpur, Bihar

Abstract*: Robust analytics frameworks are required due to the enormous spike in data generated by the integration of Internet of Things (IoT) devices. IoT networks' decentralised architecture, however, presents serious security and privacy issues. This study suggests a novel method to improve the security and effectiveness of IoT data analytics by fusing blockchain technology with machine learning algorithms. We introduce a comprehensive system that uses cutting-edge machine learning algorithms for predictive analytics and benefits from blockchain's immutability and distributed consensus processes to guarantee data integrity. In comparison to conventional centralised techniques, our experimental results show higher prediction accuracy, decreased latency, and improved data security*

Keywords: Internet of Things (IoT), Blockchain, Data Analytics, Machine Learning