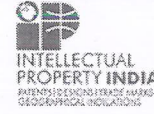


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Patent Search

Invention Title MACHINE LEARNING INTEGRATED BLOCKCHAIN MODEL FOR INDUSTRY 4.0 SMART APPLICATIONS.
 Publication Number 52/2022
 Publication Date 30/12/2022
 Publication Type INA
 Application Number 202211074141
 Application Filing Date 21/12/2022
 Priority Number
 Priority Country
 Priority Date
 Field Of Invention COMMUNICATION
 Classification (IPC) H04L0009320000, G06Q0010060000, G06N0020000000, H04L0009060000, G06F0021600000

Inventor


Name	Address	Country	Nationality
Dr. Man Mohan Siddh	Associate Professor, Department of Mechanical Engineering, Jaipur Engineering College and Research Centre, Sitapura, Jaipur, Rajasthan, India - 302022.	India	India
Santosh Patidar	Assistant Professor, Department of Mechanical Engineering, Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, Madhya Pradesh, India 453111.	India	India
Dr. Peeyush Vats	Professor, Dept. of Mechanical Engineering, Poornima College of Engineering, ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan, India 302022.	India	India
Ranveer Singh	Associate Professor, Department of Mechanical Engineering, Jaipur National university, Jagatpura, Jaipur, India - 302017. Research scholar, Department of Automobile Engineering, Manipal University Jaipur, Rajasthan, India, 303007.	India	India

Applicant

Name	Address	Country	Nationality
Dr. Man Mohan Siddh	Associate Professor, Department of Mechanical Engineering, Jaipur Engineering College and Research Centre, Sitapura, Jaipur, Rajasthan, India - 302022.	India	India
Santosh Patidar	Assistant Professor, Department of Mechanical Engineering, Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, Madhya Pradesh, India 453111.	India	India
Dr. Peeyush Vats	Professor, Dept. of Mechanical Engineering, Poornima College of Engineering, ISI-6, RIICO Institutional Area, Sitapura, Jaipur, Rajasthan, India 302022.	India	India
Ranveer Singh	Associate Professor, Department of Mechanical Engineering, Jaipur National university, Jagatpura, Jaipur, India - 302017. Research scholar, Department of Automobile Engineering, Manipal University Jaipur, Rajasthan, India, 303007.	India	India

Abstract:

In the last few years, machine learning (ML) and blockchain are the most prominent innovations. Blockchain's potential has been widely explored in literature and media, especially in finance and payment industries. Data confidentiality and privacy are prioritized in blockchain's decentralized database. However, this procedure is time consuming and inconvenient, which is one of the explanations why blockchain technology has yet to gain widespread acceptance. To solve the invalid dataset, we used integrated blockchain and ML approaches to secure system transactions and manage a dataset. Mostly, blockchain can greatly facilitate the exchange of training data and ML models, as well as decentralized information, stability, anonymity, and trustworthy ML decision making. We study the literature on integrating blockchain and ML systems in this paper and show how they can work together efficiently and effectively. We will go through the problems that each industry faces when it comes to implementing blockchain. We present a systematic report on ML and blockchain-based smart Industry 4.0 applications more robust to attacks in this article. Finally, we suggest some potential research avenues and anticipate further studies into the deeper convergence of the two promising technologies. We hope that our results will help decision-makers embrace blockchain technology and invest in Industry 4.0 by empowering and promoting research in this field.


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