Home (http://ipindia.nic.in/index.htm)   About Us (http://ipindia.nic.in/about-us.htm)   Who's Who (http://ipindia.nic.in/whos-who-page.htm)
Policy & Programs (http://ipindia.nic.in/policy-pages.htm)   Achievements (http://ipindia.nic.in/achievements-page.htm)
RTI (http://ipindia.nic.in/right-to-information.htm)   Feedback (https://ipindiaonline.gov.in/feedback)   Sitemap (shttp://ipindia.nic.in/itemap.htm)
Contact Us (http://ipindia.nic.in/contact-us.htm)   Help Line (http://ipindia.nic.in/helpline-page.htm)

Skip to Main Content

inPASS (http://ipindia.nic.in/index.htm)   **INTELLECTUAL PROPERTY INDIA** (http://ipindia.nic.
Indian Patent Advanced Search System   PATENTS | DESIGNS | TRADE MARKS GEOGRAPHICAL INDICATIONS

Patent Search

Invention Title	BLOCKCHAIN SYSTEMS ASSISTED IN RESOLVING SECURITY FLAWS AND RISKS IN THE COMMERCIAL INTERNET OF THINGS WITH THE HE AND MACHINE LEARNING
Publication Number	18/2023
Publication Date	05/05/2023
Publication Type	INA
Application Number	202341026303
Application Filing Date	08/04/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06N 030400, G06N 200000, H04L 090800, H04L 093200, H04L 411600

Inventor

Name	Address	Country
Dr.Mani Sarma Vittapu	Assistant Professor, School of Information Technology and Engineering (SITE), Addis Ababa Institute of Technology (AAiT), Addis, Ababa University, Addis Ababa, Ethiopia. Po.Box:385	India
Dr.U.Sivaji	Assistant Professor, Department of Information Technology, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India. Pin Code:500043	India
Dr.K.V.Rajani	Assistant Professor, Department of CSE, GITAM (Deemed to be University), Hyderabad, Medak District, Telangana, India. Pin Code:502329	India
Prof. Dr.Eng. Harish Kumar G R	Department of Computer Science, College of Computer Science, King Khalid University, Abha, Saudi Arabia. Po.Box:61421	India
Dr.TVG. Sridevi	Assistant Professor, Head of the Department, CSE (AI & ML), Keshav Memorial Institute of Technology, Hyderabad, Telangana, India. Pin Code:500029	India
Ms.Khalida Tabassum	Assistant Professor, Department of Computer Science, St.Francis College for Women, Umanagar, Begumpet, Hyderabad, Telangana, India. Pin Code:500016	India
Dr.V.Sangeetha	Assistant Professor, Department of CSE, MRCET, Maisammaguda, Dhulapally, Secunderabad, Telangana, India. Pin Code:500100	India
Mr.Bathula Prasanna Kumar	Associate Professor, Department of Computer Science and Engineering, KKR & KSR Institute of Technology and Sciences, Guntur, Andhra Pradesh, India. Pin Code:522017	India
Mr.R.V.Gandhi	Assistant Professor, Department of Computer Science Engineering (Data Science), Keshav Memorial Institute of Technology, Narayanaguda, Hyderabad, Telangana, India. Pin Code:500029	India
Dr.M.Kalpana Chowdary	Associate Professor, Department of CSE, MLR Institute of Technology, Dundigal, Hyderabad, Telangana, India. Pin Code:500043	India

Applicant

Name	Address	Country
Dr.Mani Sarma Vittapu	Assistant Professor, School of Information Technology and Engineering (SITE), Addis Ababa Institute of Technology (AAiT), Addis, Ababa University, Addis Ababa, Ethiopia. Po.Box:385	Ethiopia
Dr.U.Sivaji	Assistant Professor, Department of Information Technology, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India. Pin Code:500043	India
Dr.K.V.Rajani	Assistant Professor, Department of CSE, GITAM (Deemed to be University), Hyderabad, Medak District, Telangana, India. Pin Code:502329	India
Prof. Dr.Eng. Harish Kumar G R	Department of Computer Science, College of Computer Science, King Khalid University, Abha, Saudi Arabia. Po.Box:61421	Saudi Arabia
Dr.TVG. Sridevi	Assistant Professor, Head of the Department, CSE (AI & ML), Keshav Memorial Institute of Technology, Hyderabad, Telangana, India. Pin Code:500029	India
Ms.Khalida Tabassum	Assistant Professor, Department of Computer Science, St.Francis College for Women, Umanagar, Begumpet, Hyderabad, Telangana, India. Pin Code:500016	India
Dr.V.Sangeetha	Assistant Professor, Department of CSE, MRCET, Maisammaguda, Dhulapally, Secunderabad, Telangana, India. Pin Code:500100	India
Mr.Bathula Prasanna Kumar	Associate Professor, Department of Computer Science and Engineering, KKR & KSR Institute of Technology and Sciences, Guntur, Andhra Pradesh, India. Pin Code:522017	India
Mr.R.V.Gandhi	Assistant Professor, Department of Computer Science Engineering (Data Science), Keshav Memorial Institute of Technology, Narayanaguda, Hyderabad, Telangana, India. Pin Code:500029	India
Dr.M.Kalpana Chowdary	Associate Professor, Department of CSE, MLR Institute of Technology, Dundigal, Hyderabad, Telangana, India. Pin Code:500043	India

Abstract:

The present invention relates to a blockchain system for resolving security flaws and risks in the commercial Internet of Things (IoT) with the assistance of artificial int and machine learning (ML). The system utilizes a decentralized blockchain ledger to record and verify IoT data and transactions, while AI algorithms analyze the data to detect patterns, anomalies, and security threats. The system may also utilize smart contracts on the blockchain to enforce security rules and automate processes in environment. Additionally, the system may incorporate innovative consensus mechanisms, such as sharding or off-chain solutions, to address scalability challenges. T for implementing the security measures involves recording IoT data on the blockchain, analyzing the data with AI algorithms, and utilizing smart contracts to enforce rules.

Complete Specification

Description:[001] The present invention relates to the field of blockchain systems. More specifically, relates to a blockchain system assisted in resolving security flaw risks in the commercial Internet of things with the help of AI and machine learning.

BACKGROUND OF THE INVENTION

[002]   The following description provides the information that may be useful in understanding the present invention. It is not an admission that any of the inform provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[003]   The commercial Internet of Things (IoT) has revolutionized industries by enabling seamless communication and connectivity among various devices, creati efficient and automated systems. However, the widespread adoption of IoT has also raised concerns about security flaws and risks, as interconnected devices are vulnerable to cyber threats, data breaches, and unauthorized access. Existing solutions have limitations in addressing these challenges, as they often lack robustnes scalability, and adaptability. Therefore, there is a need for innovative technologies to enhance the security of IoT systems. The present invention titled "Blockchain S Assisted in Resolving Security Flaws and Risks in the Commercial Internet of Things with the Help of AI and Machine Learning" aims to overcome these limitations b leveraging the combined power of blockchain, artificial intelligence (AI), and machine learning (ML) to provide advanced security solutions for IoT environments.

[004]   Blockchain technology, originally developed for digital currencies like Bitcoin, has gained attention for its inherent security features, such as distributed cor immutability, and transparency. By utilizing blockchain, the present invention aims to establish a decentralized and trust-based system for securing IoT data and transactions. The blockchain ledger can record and verify IoT data in a transparent and tamper-proof manner, reducing the risk of data manipulation or unauthoriz access. Additionally, smart contracts, which are self-executing agreements on the blockchain, can be employed to enforce security rules and automate processes in

View Application Status

राष्ट्रीय मतदाता सेवा पोर्टल
NATIONAL VOTERS' SERVICES PORTAL