IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
Impact Factor: 7.53
Volume 4, Issue 2, August 2024

Blockchain based Smart Healthcare System

Shete Yash Suhas, Said Suraj Mangesh, Thorat Gayatri Goraksh, Korde Vrushali Uttam
Asst. Prof Kumbhoje M.R.
Department of Commerce Research Centre BBA(Computer Application)
Shri Shiv Chhatrapati College, Junnar, Maharashtra, India

Abstract: *The term "electronic health record" (EHR) refers to a patient's electronic data collection that contains medical history, which can be accessed by authorized personnel from any location at any time. The use of e-healthcare has led to improved social and health outcomes, as well as a reduction in medical errors. However, the security challenges associated with patient data storage in IT frameworks pose a significant challenge to the advancement of e-healthcare. Blockchain technology has emerged as a potential solution to this issue and may revolutionize the health- care industry. This study lays the foundation for secure patient data management using a blockchain-based approach, which incorporates a public ledger, private ledger, smart contracts, and context-based access control. The suggested architecture ensures reliable access to patient data, safe storage, and interoperability. Additionally, the proposed blockchain-based framework provides an efficient and trustworthy means of managing complex medical procedures. The study also outlines potential uses for blockchain technology in the healthcare industry, such as facilitating secure and anonymous sharing of health data for research purposes. The authors propose a novel, accessible, interoperable, and audible approach for maintaining medical records using smart contracts.*

Keywords: Blockchain, Electronic Health Records (EHR), Security, Healthcare

DOI: 10.48175/568