IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 5, May 2024

Virtual Digital Metaverse Healthcare Assistant

Asst. Prof. P. T. Shitole¹, Om Chogule², Geetanjali Jadhav³, Sakshi Lad⁴, Pratik Gurav⁵
Assistant Professor, Department of Computer Science & Engineering¹

B.Tech Student, Department of Computer Science & Engineering^{2,3,4,5}
Adarsh Institute of Technology and Research Center, Vita, Maharashtra, India

Abstract: The healthcare industry has grown more quickly as a result of the quick advancements in automation and digitization. These developments have produced innovative models that open up new avenues for providing treatment at a lower cost. A new digital technology called the Metaverse has enormous promise for the healthcare industry by giving patients and medical professionals realistic experiences. The Metaverse is an intersection of many enabling technologies, including robotics, quantum computing, internet of medical devices, augmented reality, virtual reality, and artificial intelligence, that allow new avenues to be explored for delivering high-quality healthcare services and treatments The integration of these technologies guarantees patient care that is immersive, individualized, and intimate. Additionally, it offers sophisticated, adaptable solutions that break down boundaries between healthcare practitioners and recipients. A thorough analysis of the Metaverse for healthcare is given in this article, with special attention to the state of the art, technologies that make it possible to use the Metaverse for healthcare, possible uses, and associated initiatives. Future research areas should address these concerns as well as highlight potential solutions for adapting the Metaverse for healthcare applications

DOI: 10.48175/IJARSCT-18443

Keywords: Metaverse, healthcare, virtual reality, Machine Learning

