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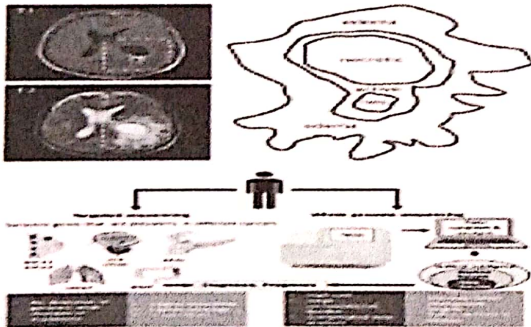
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(57) Abstract

Artificial Intelligence and IoT based Automatic smart Healthcare system to Prevention and Detection of Dengue, Malaria and other types of viral fevers using Data mining and Deep Learning Algorithms Abstract: Microorganisms that are classified as bacteria, viruses, fungus, or parasites can be the agents that lead to the development of infectious diseases. These infectious agents can spread disease either directly or indirectly, and their spread has the potential to cause epidemics or even pandemics. The infection that is caused by this can cause mild to severe symptoms, including potentially life-threatening fever or diarrhoea. Some people may not have any symptoms from infectious diseases, while others may suffer severe consequences as a result of the illness. In spite of breakthroughs in medical technology, infectious diseases continue to be one of the major causes of death around the globe, particularly in nations with low incomes. As a result of the development of mathematical tools, researchers are now in a position to improve their ability to forecast epidemics, comprehend the unique characteristics of each pathogen, and recognise possible drug development targets. The ability of artificial intelligence and its component parts to more accurately identify some types of cancer using imaging data has received a lot of media attention in recent years. Within the realm of infectious diseases, the purpose of this chapter is to investigate the various possible uses of machine learning. We are concentrating our efforts on the most important facets of the infection, including its diagnosis, transmission, response to therapy, and resistance. We are putting out the idea that extreme values could be used as a potential source of inspiration for future advancements in the study of infectious diseases. This chapter covers a series of applications that were carefully selected to demonstrate how artificial intelligence is advancing the study of infectious diseases and how it is assisting organisations in better combating these diseases, particularly in low-income countries. These applications are discussed to demonstrate how artificial intelligence is moving the field of infectious diseases further.



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