

The Role of Artificial Intelligence Driven 5G Networks in COVID-19

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DESCRIPTION

5G is the next generation wireless standard network. It is designed to work seamlessly across various types of devices and networks. Some of the disadvantages of this technology include its high cost, slow download speed, and limited network coverage [1]. Since the outbreak became a pandemic, people have had a wide variety of changes in their daily lives. It affected every sector of the economy. Many schools and companies have also stopped operating. AI will enable networks to dynamically allocate resources based on real time demand. This approach will help minimize network congestion and provide a better and more reliable service to address the sudden influx of traffic from various cities and residential areas due to the pandemic [2]. Though the hype around 5G and AI has been around for a long time, the two can still improve the capabilities of an enterprise's wireless networks. Though the hype around 5G and AI has been around for a long time, the two can still improve the capabilities of an enterprise's wireless networks.

ADVANTAGES

- Fast and accurate browsing and accessing data.
- Metro-Politian cities can benefit from the speed and accuracy of 5G data.

DISADVANTAGES

- The radiation emitted by 5G devices makes them more radiated.
- Due to its effects, various species get endangered.

This technology is designed to provide higher multi-Gigabits per second, low latency, and massive network capacity. It enables faster connectivity and better performance for new applications. The 5G is a gift to the tech lovers, as it simplifies the various tasks that we have to do in today's world. It encourages us to be lazier.

HEALTHCARE

The COVID-19 pandemic has severely affected the healthcare sector. It has caused a shortage of critical care professionals and compromised the safety of healthcare workers. The COVID-19 virus has been responsible for the deaths of many people daily [3]. It has also led to the postponement of medical examinations for other patients. Despite the efforts made by various agencies and individuals, the challenges still remain in providing adequate healthcare services to the growing elderly population. The increasing number of connected devices and the need for better healthcare services are some of the challenges that the industry has to address. Although the applications of 5G wireless technology are already widely integrated into various sectors such as healthcare, this review focuses on their potential to transform healthcare [2].

COMBINING 5G AND AI

5G makes AI better by having the high-speed connectivity and low-latency features that allow devices to connect seamlessly. According to experts, this technology will improve AI models by improving their processing power and reducing latency [4].

HOW 5G NETWORKS AND ARTIFICIAL INTELLIGENCE CAN HELP?

Through wireless communication, people have been able to connect and communicate in ways that were once only possible through text books. The COVID-19 pandemic has caused severe economic losses. The strength of 5G networks is modulated by AI, which allows networks to perform many tasks without requiring human support. This capability is usually used for tasks that require little or no human intervention, such as repairing faulty networks. The improved performance and the inclusion of edge computing in 5G would help in the development of AI-capable networks. Also, its software defined nature would help in the management and orchestration of such networks [2,4].

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