

An Overview of the Digitalization of Healthcare: A Review of Related Literature

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Abstract

At present, a part of research in the new industrial era is focused on improving healthcare system services. Interestingly, the conjunction of information technology and medicine remodels healthcare to more advanced generations with subsequent efficient and accurate applications. In this context, this study highlighted the critical aspects of digital healthcare and its application in healthcare settings. The current state and the issues and challenges associated with the technologies were also identified. It was found that they are still relatively new, with issues still focused on accuracy, design, security, and privacy. Nevertheless, the good thing about these in the context of digital healthcare is that they can be managed and resolved by several emerging technologies: security and privacy through blockchain and cloud computing, accuracy through the use of AI techniques, and lastly, design through the use of UI/UX, and progressive web applications (PWAs). And with already a variety of types, it is essential to note that implementing the tools in digital healthcare is not anticipated to replace medical professionals but instead to complement the existing systems through support in the medical interventions. In the future, each intended application of digital healthcare needs to be meticulously and continuously evaluated due to the ever-changing operational conditions between different organizations and over time.

Keywords: information technology, digital healthcare, review of related literature, Philippines, Asia