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**Abstract**—Advancement Of technology change the way peoples communicate and interact. Augmented, Virtual and Mixed Reality makes it possible to take every to our doorstep, such as education, Treatment, and business meetings, etc. The rapid development of technology has transformed all industries in the market, including the healthcare, Field. In the last few years, there has been a dramatic increase in the use of Augmented, Virtual and Mixed Reality applications for the healthcare sector, which makes the easiness for health professionals to integrate these technologies with the medical field. These technologies make the easiness in medical education and Treatment. It also provides adaptive intelligent solutions that eliminate the barriers between medical professionals and Patients. With productive opportunities in the medical domain, these technologies are the most profitable and promising. This paper briefly explains the Augmented and Virtual Reality Applications, development, possible future threats, and challenges in the healthcare field.

**Keyword** Extended Reality (XR) , Augmented Reality (A.R.), Virtual Reality (V.R.), Mixed Reality (M.R.)



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