

Artificial Intelligence (AI) has made significant strides in the healthcare industry, promising advancements in diagnostics, treatment, and patient care. AI technologies, such as machine learning and deep learning, have been integrated into various healthcare applications, from predicting patient outcomes to assisting in complex surgeries. This paper explores the various applications of AI in healthcare, its potential benefits and risks, and the ethical considerations involved. It also discusses the future of AI in healthcare, considering both its current capabilities and the challenges that remain to be addressed.