Artificial Intelligence (AI) is revolutionizing the healthcare industry by improving diagnostics, patient care, and medical research. AI-powered systems can analyze vast amounts of medical data and detect patterns that might be overlooked by human doctors. One significant application of AI in healthcare is medical imaging, where deep learning algorithms can accurately identify diseases such as cancer, pneumonia, and brain tumors in X-rays and MRIs. In addition, AI-driven chatbots and virtual assistants are being used to provide preliminary diagnoses, answer patient queries, and schedule appointments efficiently. Another major breakthrough is AI-powered drug discovery, which speeds up the identification of potential treatments by analyzing chemical compounds and predicting their effectiveness. AI is also playing a crucial role in personalized medicine, where machine learning models analyze a patient's genetic information to recommend tailored treatment plans. However, despite its advantages, AI in healthcare faces several challenges, such as data privacy concerns, ethical issues, and the need for extensive validation before widespread adoption. While AI enhances healthcare decision-making, experts emphasize that it should complement doctors rather than replace them. The future of AI in healthcare looks promising, with ongoing research aimed at improving accuracy, ensuring fairness, and making healthcare more accessible worldwide.