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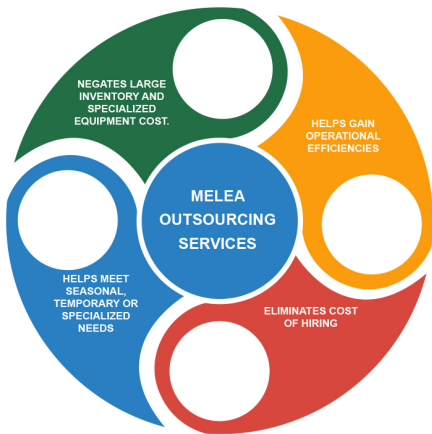
ARTIFICIAL
INTELLIGENCE



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Artificial Intelligence in Healthcare: Are We Ready for The AI Intervention?

In the last few years, Artificial Intelligence or A.I. has filtered through to practically every field in our society be it entertainment, literature, business, education, politics or healthcare. Companies like, **Zakpoint Health**, which is capable displays all relevant healthcare data relating to individual members on a dashboard to understand risk and cost, provide tailored programs and improve patient engagement. In healthcare industry, there is **Desktop Genetics**, which is an international biotechnology company established to help researchers discover and treat the genetic causes of human disease. Despite the way A.I. is re-wiring our modern conception of healthcare delivery, there is still a huge area of industry which hasn't yet warmed up to it, in fact many of them have grave concerns about "the Singularity"—the point when technology becomes so masterly that it takes over for good—is coming sooner with our increasing dependence on technology. For instance, Elon Musk warns us against "summoning the demon," envisaging "an immortal dictator from which we can never escape," while Stephen Hawking declared that an A.I. "could spell the end of the human race".

A.I.'s presence in Healthcare has also met with skepticism, though there are many that welcomes it. In fact, with its precise, personalized learning and multitasking approach it has become favorite to many Healthcare experts. And yet, some doctors and patients have shown reluctance in depending upon A.I.'s optimization.

When we talk about A.I.'s presence in the healthcare industry, these concerns go one step ahead and have different reasons altogether as in both doctors and have their own reasons to distrust A.I. technology. It's true that Precision healthcare gives an edge to the healthcare treatments by providing efficiency and accuracy. As with precision healthcare, Doctors can potentially develop targeted

precise treatment and therapies for specified groups as well as an individual. This can potentially improve patient treatment to large populations as well as in countries like India. However, this comes at a cost, with Precision healthcare, comes the issue of data privacy issues and concerns related to patient data. Many patients show their discomfort as they are not even aware of, where and by whom the personal data they provide is being used? There are other issues too, while A.I. technology hasn't replaced doctors so far but question remains to be answered as to how comfortable are we in letting a machine operate on us?

If patients show discomfort at the efficiency of an A.I. controlled machine then we have doctors' resistance to A.I. driven health services because of the sense of displacement it brings if they depend too much on it. A recent report by Accenture predicts that the [AI health market will grow to an estimated \\$6.6 billion by 2021](#) at a compound annual growth rate (CAGR) of 40 percent. This represents a significant increase from a market size of \$600 million in 2014. Time and again, it has been suggested that AI could eventually replace the physicians and surgeons. We must note that there is limited research to help healthcare professionals navigate these claims and their potential effects of A.I. in long term. We should also note that despite its efficiency and accuracy, A.I still needs human intervention and assistance for personalized training and learning as to achieve precision healthcare services.

To better understand the role of A.I. technology in healthcare, we need to consider solution to data privacy issues, role of A.I. and can it really replace human intelligence and need in healthcare delivery.