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How 'Cloud Medicine' Can Change the Indian Healthcare Sector

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Ayush Atul Mishra, Co-Founder and CEO, Tattvan shares his views on How 'Cloud Medicine' Can Change the Indian Healthcare Sector



A few decades ago, the healthcare sector had an entirely different picture which has been revolved around the perpetual innovation in technology. We are already living in technology-driven age which yet has a huge potential to grow in the coming future. Years from now, the medical industry would witness extreme technology advancements where tech-savvy medical equipment would sample your vitals instantly and would upload your health information on the dedicated platform. Doctors would refer to these health records to analyze your health condition prescribe medicines virtually. Patients would be simply downloading such prescriptions and ordering medicines online which would be delivered at their doorsteps.

The futuristic healthcare model would mark the precision and ease of medical operations to improve life quality and save more lives. Cloud is going to be an integral element to make it possible.

Future of Healthcare – Cloud Medicine

IT innovations intend to bridge the void of cost-effective, secure and easily accessible healthcare facilities. Cloud has emerged as the most viable technology, assisting hospitals and medical practitioners to expand their footprints beyond geographical boundaries.

Microsoft Health and Life Science Division, projected Cloud Medicine as the trending tech for accumulating best managing data in the medical sector, in 'Healthcare of Tomorrow Conference', held in Washington. According to the research firm MarketsandMarkets, international adoption for cloud technology in the medical sector is expected to expand from US$3.73 billion in 2015 to more than US$9.5 billion by 2020.

How Cloud Medicine is reshaping Indian Health Sector

Cloud is significantly facilitating the healthcare segment in deploying advanced medical services including telemedicine, remote monitoring tools, mobile health applications and much more. Gartner's research also revealed that the intervention of the cloud is rapidly assisting medical organizations in addressing compliance and security concerns.

Today, the cloud has built a strong network for all disrupting techs such as Programming learning, Artificial Intelligence and Big Data Science across the industry. Moreover, the in-depth research on the changing parameters of healthcare operations suggests that from EHRs to AI-based robotics surgery, mHealth, telemedicine, e-clinics and precision medicine, every medical technology is working under the horizon of 'Cloud Medicine'.

In reference to a case study by the Translational Genomics Research Institute, a medical research company that uses genetic analysis to diagnose and evolve the line of treatment for various diseases like diabetes, cancer, tumor, neurological disorders, etc. The human genome consists of more than 3 billion base pair which creates a human blueprint to make the human body and reveal its information.

Cloud has made individual genome mapping possible and easier. Over 30TB genetic data can be processed to prescribe precision medicine for individual treatment within a few hours. Cloud has guided the doctors through TGen genetic screening to plan a different treatment of a child whose tumor was not responding to the chemotherapy. Cloud Medicine helped doctors frame out a personalized treatment which shrank tumor over 80% and the child recovered well. It evident for the scalability of cloud architecture which would empower healthcare service providers to offer personalized treatment to patients.

Cloud Technology in Healthcare

Cloud acts as a catalyst for advancements in the medical sector to streamline and add values to medical and clinical research efforts. It is offering great access to patients' health data and supporting digital healthcare solutions including mHealth, EHRs, telemedicine, and several smart connected health devices.

The world has entered the 'Post-EHR' era as many nations have already adopted the EHR system as a crucial part of their healthcare programs. Now the aim is to find customized treatment for all patients across geographical boundaries and handling the cloud center for the positioning of administration support. The demand for healthcare data storage and archival requirements have swiftly increased with the entrance of big data analysis. Owing to the rising requirements of the medical industry to restrict cost and enhance life and healthcare quality with optimized healthcare IT, the intervention of cloud telephony will increase rapidly in the future. Cloud-Medicine on SAAS based models is the healthcare of the future as it will offer better treatment and quality services anytime anywhere.