

Data modernization in healthcare

Use Cases

Advanced analytics and AI are transforming the way we manage, analyze, and leverage data across sectors. One of the most significant sectors where data is making big, swathing changes is healthcare. Data analytics in the healthcare sector has the potential to reduce cost of treatment, predict epidemics and pandemics, prevent diseases and improve the quality of life. Healthcare professionals have the opportunity to collect vast amounts of data – about patients, quality of care and much more. But this data would only be useful when it is not siloed and sitting in disparate systems.

The future is promising for healthcare organizations that adapt to change and adopt strategies to make the most of data and digital transformation. Data modernization is at the core of these strategies.

Typical data modernization use cases in healthcare

Pharma co-vigilance

With pandemics such as COVID and the rapid implementation of vaccines around the world, there is an increased focus on pharmaceutical co-vigilance. Adverse effects of drugs must be reported back to pharmaceutical companies and regulators. These metrics need to be reported in real-time but data is spread across disparate systems, putting significant load on IT teams in the healthcare ecosystem.

With data modernization, sharing data across various stakeholders of the healthcare ecosystem becomes easy. Even non-IT professionals can do this with ease with data de-centralization. Putting this power in the hands of all relevant stakeholders in the healthcare ecosystem ensures easy access to data and faster, more effective decision-making and actions in case of adverse effects and other metrics that need to be reported to regulators and pharmaceutical companies.



Leveraging research papers for first line of treatment

Healthcare ecosystem relies heavily on research papers. Healthcare organizations are struggling to make sense of all these unstructured insights in research papers, that frontline workers can leverage when providing first level of care. When insights from modern and relevant research papers is not available, often traditional, even outdated care could be doled out to patients. This needs to stop.

With data modernization, physicians and frontline workers can access sharp insights in real time as and when the need arises. These insights enable the highest quality of relevant, modern, informed line of treatment at the frontline. This ensures higher quality of relevant, modern care to patients, eventually saving lives.

Training ML systems

Automation in healthcare is an idea whose time has come. It removes repetitive tasks from the to-do list of healthcare professionals and frees them up to deliver care. This means that AI and ML systems need to be trained over time to take on the repetitive tasks from the hands of healthcare professionals. One of the use cases of this is in X-ray imaging.

ML systems can be trained over time to decipher health challenges through X-ray imaging. However, this training is only possible over time through a large corpus of data for the system to learn from.

With data modernization, this corpus of data becomes available for professionals to train AI and ML models over time. This is a sign of true digital transformation in the healthcare sector, freeing up the time of physicians to deliver relevant, modern care to patients.



Enhancing quality of care with highly visible patient data

One of the biggest challenges in healthcare is the silos in patient data. Due to the silos, often physicians only have visibility into partial patient data and are not informed sufficiently about each patient's health history. Decision making about care would be much more holistic and informed if physicians had visibility into 360-degree patient data.

Data modernization comes into play here. By syncing patient data from disparate systems, data modernization can create patient data streams and make them highly visible for physician's decision making. This ensures that care decisions are highly informed and effective treatments can be delivered to patients. More importantly, data modernization secures patient data, maintaining patient privacy while delivering the highest order of care.

In conclusion

Data modernization can help healthcare organizations deliver effective care and discover new and sustainable means to improve efficiency across the patient lifecycle.

Start your data modernization journey today, to make the most of your digital transformation, AI, and ML efforts. Greater ROI is waiting for you – kick start your journey with Acuvate