

Big Data Analytics Applications in Large Healthcare System

Description:

Developed Innovation **Strategy Process for big data analytics use cases**. Collected, categorized and analyzed big data analytics opportunities for healthcare. Carried out an in depth analysis of big data analytics in clinician's decision support scenarios and created a backlog and assessment of 26 other use cases.

Problem:

Large healthcare system (100+ hospitals) was exploring new innovative ways to address internal inefficiencies, staffing issues and regulatory and market changes. Client was interested in **Big Data Analytics solutions that could simultaneously cover largest possible segment of patients, and simplify data integration** (through cloud-based solutions).

Infoedge approach:

Infoedge worked with client to identify main needs and use cases in areas spanning from clinical decision support, thought workforce management to population health, to managing chronic conditions via wearables and telehealth. Infoedge build an in depth analysis system to assess all 20+ use cases using following criteria:

- ❖ Strategic willingness - assessment if proposed use case meets the overall company wide goals and is inline with current initiatives
- ❖ Internal readiness - assessment if people, current practices, and technologies could undergo changes required to implement big data analytics technologies.
- ❖ Market Maturity - assessment of product maturity and vendors current and future capabilities.
- ❖ Business case - valuation of potential cost savings or revenue generation benefits to be realized by implementing each use case.

Key insights:

- ❖ 100+ hospital's health system has the potential to realize ~\$400MM in cost savings and additional revenue annually
- ❖ The highest benefit would be realized thanks to improvements in Medicare Risk Adjustments
- ❖ Market maturity for innovative healthcare solutions varies drastically