

ANALYTICS FOR HOSPITALS

HEALTH-CARE DATA

ABSTRACT

Healthcare analytics refers to the utilization of vast amounts of collected data to supply organizations with actionable insights. These insights are developed through analytical disciplines to handle fact-based deciding. In turn, these decisions better planning, management, measurement and learning. While healthcare management has various use cases for creating use of data science, patient length of stay is one critical parameter to note and forecast if one looks to boost the efficiency of the healthcare management in a very hospital. IBM Cognos Analytics is employed to integrate hospitals reporting, modeling, analysis, dashboards, stories, and event management. This parameter helps hospitals to spot patients of high LOS-risk (patients who will stay longer) at the time of admission. Once identified, patients with high LOS risk can have their treatment plan optimized to reduce LOS and lower the prospect of staff/visitor infection. Also, prior knowledge of LOS can aid in logistics like room and bed allocation planning. The goal is to accurately predict the Length of Stay for every patient on a case by basis so the Hospitals can use this information for optimal resource allocation and better functioning.

BLOCK DIAGRAM

