

Analytics for Hospital Health-Care Data

Literature Review

- Healthcare Industry is one of the world's biggest and
- widest developing industries. During, the recent years the
- healthcare management around the world is changing from
- disease-centered to a patient-centered model [1] and volume-
- based to a value-based healthcare delivery model [2].

- Educating the superiority of health care and decreasing the
- cost is a principle behind the developing movement toward
- value based healthcare delivery model and patient-centered
- care. The volume and demand for big data in healthcare
- organizations are growing little by little [3]. To provide
- effective patient-centered care, it is essential to manage and

- analyze huge health data. The outdated data management
- implements are not sufficient enough to analyze big data as
- variety and volume of data sources have increased in the past
- two decades. There is a need for new and innovative big data
- tools and technologies that can meet and exceed the ability of
- managing healthcare data [4]. Research study predictions on

- the worldwide big data expenditure in the healthcare business
- to progress towards Compound Annual Growth Rate
- (CAGR) of 42% during this years 2014-2019 [5].
- The big data are used to predict the diseases before they
- emerge based on the medical records. Many countries' public
- health systems are now providing electronic patient records

- with advanced medical imaging media [6]. The practice of
- big data takes the prospective to encounter the upcoming
- market needs and trends in healthcare establishments [7]. Big
- data provides a great opportunity for epidemiologists,
- physicians, and health policy experts to make data-driven
- judgments that will eventually develop the patient care [8].

● The authors have used Google trends for analyzing the 'big data in healthcare' between 2010 and 2015

- To support disease-centered to a patient-centered model and volume-based to a value-based healthcare delivery model.
- Educating the superiority of health care and decreasing the cost is a principle behind the developing movement toward value based healthcare delivery model and patient-centered care.
- To manage and analyze huge health data. The outdated data management implements are not sufficient enough to analyze big data as variety and volume of data sources have increased in the past two decades.
- To use new and innovative big data tools and technologies that can meet and exceed the ability of managing healthcare data.
- The big data are used to predict the diseases before they emerge based on the medical records. To provide electronic patient records with advanced medical imaging media.
- The practice of big data takes the prospective to encounter the upcoming market needs and trends in healthcare establishments .Big data provides a great opportunity for epidemiologists, physicians, and health policy experts to make data-driven judgments that will eventually develops the patient care.

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