**ANALYSIS OF HOSPITAL HEALTH CARE DATA**

**LITERATURE SURVEY**

**1.1** TITLE : An Introduction to Healthcare Data Analytics.

AUTHOR : Cheryl Ann Alexander

YEAR : 2018

DESCRIPTION :

Data analytics can improve patient outcomes, advance and personalize care, improve provider relationships with patients, and reduce medical spending. This paper introduces healthcare data, big data in healthcare systems, and applications and advantages of Big Data analytics in healthcare.

**1.2** TITLE : Data Analytics in Healthcare

AUTHOR : Kornelia Batko

YEAR : 2022

DESCRIPTION :

Analytics are techniques and tools used to analyze and extract information from Big Data. The results of Big Data analysis can be used to predict the future. They also help in creating trends about the past. When it comes to healthcare, it allows to analyze large datasets from thousands of patients, identifying clusters and correlation between datasets, as well as developing predictive models using data mining techniques.

**1.3** TITLE : A Systematic Review on Healthcare Analytics

AUTHOR : Md Mahmudul Hasan

YEAR : 2018

DESCRIPTION :

We found that the existing literature mostly examines analytics in clinical and administrative decision-making. Use of human-generated data is predominant considering the wide adoption of Electronic Medical Record in clinical care. However, analytics based on website and social media data has been increasing in recent years. Lack of prescriptive analytics in practice and integration of domain expert knowledge in the decision-making process emphasizes the necessity of future research.

**1.4** TITLE : Big Data Application in Medical field

AUTHOR : Ibrahim Haleem Khan

YEAR : 2021

DESCRIPTION :

Digital imaging and medical reporting have acquired an essential role in healthcare, but the main challenge is the storage of a high volume of patient data. Although newer technologies are already introduced in the medical sciences to save records size, Big Data provides advancements by storing a large amount of data to improve the efficiency and quality of patient treatment with better care. It provides intelligent automation capabilities to reduce errors than manual inputs.

**1.5** TITLE : Big Data Analytics for Healthcare Industry

AUTHOR : Sunil Kumar

YEAR : 2018

DESCRIPTION :

In this paper, we discuss the impact of big data in healthcare, and various tools available in the Hadoop ecosystem for handling it. We also explore the conceptual architecture of big data analytics for healthcare which involves the data gathering history of different branches, the genome database, electronic health records, text/imagery, and clinical decisions support system.

**1.6** TITLE : Data Analytics in Healthcare

AUTHOR : Maria Mohammad Yousef

YEAR : 2021

DESCRIPTION :

Due to the rapid growth of such medical data, we need to provide suitable tools and techniques in order to handle and extract value and knowledge from these datasets to improve the quality of patient care and reduces healthcare costs. Furthermore, such value can be provided using big data analytics, which is the application of advanced analytics techniques on big data. This paper presents an overview of big data content, sources, technologies, tools, and challenges in health care. It also intends to identify the strategies to overcome the challenges.

**1.7** TITLE : Impact of Big Data Analytics

AUTHOR : Milena Soriano Marcolino

YEAR : 2021

DESCRIPTION :

The healthcare industry has generated large amount of data generated from record keeping, compliance and patient related data. In today’s digital world, it is mandatory that these data should be digitized. To improve the quality of healthcare by minimizing the costs, it’s necessary that large volume of data generated should be analysed effectively to answer new challenges.