ERODE SENGUNTHAR ENGINEERING COLLEGE

DATA ANALYTICS FOR HOSPITAL'S HEALTH CARE DATA

LITERATURE SURVEY-1

TEAM ID: PNT2022TMID06414

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S.No.	Title	Author	Year of publication	Problem identification	Techniques used	drawbacks
1.	Big data analytics: In Healthcare: Data-Driven Methods for Typical Treatment Pattern Mining	Chonghui guo and Jingfeng Chen	April 2019	Our findings will help healthcare organizations understand the big data analytics capabilities and potential benefits.	Cassandra DB	To address this lack, this study examines the historical development, architectural design and component functionalities of big data analytics.
2.	Big data analytics solution for intelligent health care management	Alejandro Baldominos, et.al.,	March 2017	The users to help able to see understand the valuable information provided by datacare,the visual analytics.	Apache spark, Mongo DB	Big data can also pose risk and undermine pose doctors.
3.	Analysis of healthcare big data	Zhihan Lv, et.al.,	March 2020	Hospitalization cost, and the insured population all show a trend of increasing year by year	Hadoop	The hospitalization costs show a trend of increasing year by year in recent years.
4.	Healthcare analytics in Era: A survey	Mohammad zunnunkhan, et.al.,	March 2019	It helps new data and security models for measuring security & quality of data using health care environment	Machine learning	Data sets can gain unwanted attention from hackers and important information can be leaked to competitors.
5.	A Framework for Data Analytics-Based Healthcare Systems	V.Muneeswaran, et.al.,	February 2021	Data analytics is becoming a future escalating tool of all industries including medicine, robotics,etc.,	generic XML	the term data is unavoidable and certainly, nothing is possible without its usage.
6.	A survey on Data mining	Divya Tomar, et.al.,	October 2013	Data mining offers novel information regarding health care	classification, clustering, association,	Decision regarding selection of

	approaches for health care			helpful for making administrative as well as prediction of disease, selection of treatment, health insurance policy.	regression in health domain	merge of split point.once a decision is made it cannot be undone.
7.	A Framework for Pandemic Prediction Using Big Data Analytics	ImranAhmed, et.al.,	January 2021	the novel coronavirus pandemic (COVID-19) outbreak is seriously threatening human health.	machine learning	prescriptive analysis applying big data analytics using a novel disease real data set, focusing on different pandemic symptoms.
8.	Big-DataAnalytics for IoT-Enabled Smart Healthcare System	Syed Rooh Ullah Jan.	January 2021	Security Optimization, Implementing and testing on real world patients.	Machine learning	Precision, Interoperability. Real time, Single Drabacks subject, Low accuracy.
9.	Big Data Analytics in Healthcare Medical Image Processing from Big Data Point of View.	Daniel A,et,al.,	May 2015	The user to help able to information provided by healthcare	Machine learning	Delayed enhanced MRI has been used for exact assessment of myocardial infarction scar.
10.	Influential Usage of Big Data and Artificial Intelligence in Healthcare.	Sadia Khan, et,al.,	September 2021	users of the machines do not have enough knowledge on using the technologies/machines.	Apache spark, Mongo DB.	have sufficient data and knowledge about machines and technology.
11.	Big data analytics for healthcare industry: impact, applications, and tools	Sunil Kumar.	October 2018	huge amounts of structured, unstructured, and semi-structured data have been generated by various institutions around the world	Hadoop	The health industry sector has been confronted by the need to manage the big data being produced by various sources, which are well known for producing high volumes of heterogeneous data.

12.	Current practices in clinical Analytics: A hospital survey.	Dana M.Womack, et,al.,	June 2012	The purpose was to better understand current practices, capabilities and challenges related to Clinical data analytics	machine learning	lack of organisational alignment and or strategy for data analysis as a challenge Lack of standardized methods and electronic tools.
13.	Big Data Analytics Framework for Opinion Mining of Patient Health Care Experience	G. Sabarmathi, et,al.,	March 2020	Preciously administration might be able to acknowledge the crucial decision making process where the new investigations would be accounted for different research avenues.	hadoop	The huge amount of data derived from this humongous volume of information
14.	Healthcare Analytics in the Modern era.	Waseem Afsar.	July 2021	designed due to the solution of complex problems such as health disparities.	Artificial Intelligence	unable to read the following documents for the help in using the documents of power of the public in the world
15.	Big data analytics for personalized medicine.	Choong ho lee, et,al.,	august 2019	multiview data analytics requires advanced machine learning techniques such as deep learning and cognitive computing.	machine learning.	Medical big data analyses are complicated by many technical issues, such as missing values, curse of dimensionality, and bias control.
16.	A review of secure and privacy - preserving medical data sharing.	Hao Jin,Yan Luo, et,al.,	May 2019	The cyber infrastructure boundaries of health care organisations and privacy leakage threats place obstacles on the sharing of medical records.	block chain, Cryptography, HITECH computerized order entry.	potential proprietary/data plagiarism issues Higher Risk of files Being shared publicly
17.	Chronic Diseases and Health Monitoring	Rongheng Lin		It focuses on the full cycles of the big data processing, which includes medical big data preprocessing, big	Machine learning.	in recent years, there has been much research in medical big data, mainly

	Big Data: A survery.			data tools and algorithms, big data visualization, and security issues in big data.		targeting data collection, data analysis, and visualization.
18.	Health Big Data Analytics: A Technology survey	Jong Wook Kim	October 2018	The system should not only be able to help to the provision of a successful and timely care by recommending a practical diagnosis.	Machine learning	For data mining, no single algorithm provides a fit-all solution to health data.
19.	Roles of Innovation Leadership on Using Big Data Analytics to Establish Resilient Healthcare Supply Chains to Combat the COVID-19 Pandemic.	Surajit bag,et,al.,	August 2021	Our structural equation modeling analysis using the partial least squares (PLS) method revealed that BDA capabilities play a pivotal role in building a responsive HSC and improving innovation.	machine learning	we argue that the role of innovative leadership in the COVID-19 pandemic situation is critical as it indirectly affects HSC resilience when BDA is in place.
20.	A systematic review of health care big data.	Rakesh Raja,et,al.,	July 2020	Analysing different perspectives about the concept of big data in healthcare Exploring the origins of healthcare big data Identifying tools and techniques for healthcare big data Analytics.	Machine learning Systematic Literature Review (SLR) Method.	lots of big data is unstructured It can be used for manipulation of customer records