## **Analytics for Hospitals' Health-Care Data**

Team ID: PNT2022TMID53225

Team leader: Krishnaraj K Team member: Ashwath Team member: Dheeraaj Team member: Kamalesh

## Literary survey

S.No	Title of the paper	Author	Methods	Observations
1.	Data analytics in healthcare: promise and potential	Wullianallur Raghupathi And Viju Raghupathi	The paper describes the nascent field of big data analytics in healthcare, discusses the benefits, outlines an architectural framework and methodology, describes examples reported in the literature, briefly discusses the challenges, and offers conclusions	Health data volume is expected to grow dramatically in the years ahead.  Comparative effectiveness research to determine more clinically relevant and cost-effective ways to diagnose and treat patients.  Big data analytics in healthcare is evolving into a promising field for providing insight from very large data sets and improving outcomes while reducing costs. Its potential is great; however there remain challenges to overcome. The paper provides a broad overview of big data analytics for healthcare researchers and practitioners.
2.	Big Data Analytics in Healthcare:	Ashwin Belle, Raghuram Thiagarajan, Fatemeh Navidi and Kayvan Najarian	The rapidly expanding field of big data analytics has started to play a pivotal role in the evolution of healthcare practices and research. It has provided tools to accumulate, manage, analyze, and assimilate large volumes of disparate, structured, and unstructured data produced by current healthcare systems. Big data analytics has been recently applied towards aiding the	Big data analytics which leverage legions of disparate, structured, and unstructured data sources is going to play a vital role in how healthcare is practiced in the future.  One can already see a spectrum of analytics being utilized, aiding in the decision making and performance of healthcare personnel and patients. Here we focused on three areas of interest: medical image analysis, physiological signal processing, and genomic data processing. The exponential growth of the volume of medical images forces computational scientists to come up with innovative solutions to process this large volume of data in tractable timescales. Medical image analysis, signal processing of physiological data, and integration of

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			process of care	physiological and "- omics" data face
			delivery and disease	1
				similar challenges and opportunities in
			exploration.	dealing with disparate structured
	D' 1.		771	and unstructured big data sources.
3.	Big data	Sayantan	The current study	The current study intended to address
	analytics in	khanra,	performs a systematic	four research questions related to the
	healthcare: a	Amandeep	literature review	application of BDA in healthcare.
	systematic	Dhir and	(SLR) to synthesise	These questions have been answered
	literature	A.K.Ajmul	prior research on the	following a standard protocol for
	review.	Islam.	applicability of big	reviewing resources from key
			data analytics (BDA)	databases. The study has identified the
			in healthcare. The	gaps in the existing literature and
			SLR examines the	provided an actionable research agenda
			outcomes of 41	for future research on the utilisation of
			studies, and presents	big data in the healthcare sector.
			them in a	However, despite the significant
			comprehensive	contributions of this current study, it
			framework. The	suffers from three main limitations:
			findings from this	first, book chapters, magazine articles,
			study suggest that	and thesis studies have been
			applications of BDA	excluded from the scope of this study;
			in healthcare can be	second, journal articles and conference
			observed from five	studies not available in English were
			perspectives, namely,	not considered; third, studies not
			health awareness	available in the four databases were
			among the general	not reviewed unless they appeared in
			public, interactions	the forward and backward searches.
			among stakeholders	Future research is invited to overcome
			in the healthcare	these limitations.
			ecosystem, hospital	these inflictions.
			management	
			practices, treatment	
			of specific medical	
			conditions, and	
			· ·	
			technology in	
			healthcare service	
			delivery.	