**ANALYTICS FOR HOSPITALS' HEALTH-CARE DATA**

SUBMITTED BY

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| **TITLE** | **AUTHOR** | **ALGORITHM** | **ADVANTAGES** | **DISADVANTAGES** |
| **Big Data Analytics in Healthcare Systems** | Maria Mohammad Yousef | DATA ANALYTICS | For better treat disease and the diagnosis in the medical, the role  of big data is one where it can construct better predictive models using tools with the ability to analyze and process this vast amount of data. | The contents of this research consist of a systematic review of the current state of Big Data technology in health care, but it does not get into consideration the technical details and concerning about the implementation and out comes achieved in each of the studies reviewed. |
| **Big Data Analytics in Healthcare Systems** | Lidong Wang, Cheryl Ann Alexander | DATA ANALYTICS | **1.**It presents the technological progress of big data  in healthcare, such as cloud computing &stream processing.  **2.**Data analytics overcomes the limitations of traditional data analytics and will bring revolutions in  healthcare. | **1.**Security and privacy: Traditional privacy and security measures work on small datasets,  capability to use the same measures on massive and streaming datasets is possibly a  problem, particularly when dealing with patient’s health data.  **2.** Data quality: It affects reliable insights from the data and decision-making for patients’  healthcare.  **3**.Insufficient real-time processing: Delay in processing complex data models can result in  patient care with less quality. |
| **BIG DATA ANALYTICS IN HEALTHCARE** | Shubham Mehla | DATA ANALYTICS | **1.**Medical diagnosis – Diagnosis of a disease by the analyzing previous data may help in diagnosing the disease as an earlier stage and thus also reduce complications during treatment.  **2.**Community healthcare – Preventive steps must be taken before hand against the predicted risks  of chronic disease among population by making people aware about contagious disease  outbreaks.  **3.**Hospital Monitoring – Hospitals can be monitored in real-time that could help government to  ensure optimal service quality. | **1.** Quality of insights – The medical healthcare data which is being generated is of poor quality and contains a lot of inconsistencies. So, yielding insights from that data may sometimes results into inadequate insights and misleading suggestions.  **2.** Privacy and Security – It is a serious issue to give access and exposure of patient’s data to  unauthorized third party such as government agencies,insurance companies. |
| **Big Data Analytics in Healthcare — A Roadmap for Practical**  **Implementation**. | Sohail Imran, Tariq Mahmood, Ahsan Morshed, and Timos Sellis, Fellow, IEEE | DATA ANALYTICS | BDA can lead to  competitive advantages, improved operational efficiency,  better service, more effective new opportunities. | Granular access control in healthcare enables patients and hospital medical users responsibilities, privileges, rights and  roles to be set such that users related to the hospital are given  privileges only to their relevant data or functional area of the  system. Maintaining the reliability of data and BDA results is another core problem in application of BDA to healthcare |