

# **LITERATURE SURVEY**

# **DATA ANALYTICS IN HOSPITAL**

# **HEALTH CARE**

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| TITLE   | AUTHOR   | ALGORITHM            | ADVANTAGE  | DISADVANTAGE  |
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| Big data analytics in hospital health care                  | Ashwin Belle<br>Raghuram<br>Thiagarajan<br>S. M. Reza<br>Soroushmehr | Data analytics       | Leverage legions of disparate ,structured and unstructured data sources is going to play a vital role in health care   | Have patents to some of the methodologies surveyed in this paper  |
| The role of big data analysis in hospital management system | Dhivyalakshmi.S  | Data analytics       | Helpful in tracing and handling the population health more competently and successfully<br>It improves the ability to deliver preventive care<br>Four main security models approach was introduced | Prevent the credential users from misusing the system<br>Prevent credential users from observing and altering the information stored in clusters  |
| Big data analytics solution to healthcare                   | Manpreet Singh   | Data analytics       | It discusses the usefulness of application of big data analytics using patient care dataset for better insight in care coordination ,health management and patient engagement .                    | There is a lot of big data flowing which includes genomics, remote sensing , social media, mobile app and many other data types.<br>Issues such as data integrity ,privacy lead to poor data management<br>privacy violation and discrimination |
| Big data analytics in medical engineering and healthcare    | Lidong Wang<br>Cherly Ann<br>Alexander                               | Health care Analysis | Big data analytics used in large scale genetics studies, public health, personalised and precision medicine and also for new drug development  | All data in database doesn't come from somewhere with data governance habits  |

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| The Use of Big data analytics in Health care             | Kornelia Batko and Andrzej Slezak           | Data Analytics                      | Big Data Analytics in healthcare will allow to use new technologies both in treatment of patients and health management. Medical Centers will have a complete picture of their Activities, taking into account the clinical, management, financial and quality perspectives.            | Medical enterprises still cannot keep up with the information needs of patients, clinicians, administrators and the creator's policy. The main challenge with Big Data is how to handle such a large amount of information and use it to make datadriven decisions in plenty of areas. |
| Big data analytics in health care: Promise and Potential | Viju Raghupathi and Wullianallur Raghupathi | Cluster analysis and Regression     | The healthcare industry historically has generated large amounts of data, driven by record keeping, compliance & regulatory requirements, and patient care. While most data is stored in hard copy form, the current trend is toward rapid digitization of these large amounts of data. | As big data analytics becomes more mainstream, issues such as guaranteeing privacy, safeguarding security, establishing standards and governance, and continually improving the tools and technologies will garner attention.  |
| Health care data analysis using evolutionary algorithm   | A.suresh, R.Kumar, Varatharajan             | k-Means Clustering,SVM, Naive bayes | Data mining is used and an assessment model for the health care analysis is developed with the preprocessing steps of performing data.  | The analysis demonstrates that the planned perfect has accomplished a regular correctness of 98.79% of health care dataset.  |
| Data Visualisation in Health care                        | Ivan Dunskey                                | Data analytics                      | Modern data visualization tools in healthcare convert complex data into userfriendly visuals that are easy to understand for its stakeholders, be they doctors, patients, or  | Visuals tend to increase our confidence, so it's possible for us to draw inaccurate conclusions from them. Much of the success with data   |

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|  |  |  | government officers.By visualizing realtime data on patient health status, doctors can define and group patients according to the treatment and attention they need.Also prevents practitioners from missing important information. | visualization depends on how implement is done, and how it is used on a regular basis. If it's designed in an unsophisticated way, or if there's a flaw in how it operates, it might lead to inaccurate presentations. |
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