

{tag} International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

[Volume 180](#)

-
[Number 9](#)

Year of Publication: 2018

Authors:

Gakwaya Nkundimana Joel, S. Manju Priya

10.5120/ijca2018916143

{bibtex}2018916143.bib{/bibtex}

Abstract

The healthcare informatics focuses on health data, information and knowledge, including their collection, processing, analysis and use bioinformatics employs computational tools and techniques to study and analyze large biological databases and to understand disease and study of inherent genetic information molecular structure by relating them with healthcare data. This amassing of healthcare information will enable the biologist and scientist to improve health as drug discovery. This paper touches on big data in healthcare and analyzes of those big data in healthcare for the better improvement of healthcare system, bioinformatics data stored in secured manner. Finally, the paper looks on the helpful result, the beneficence of each of them in amelioration of healthcare system. To achieve this health amelioration in bioinformatics, we use Hadoop as tools which collect and analyze the huge amount of data in healthcare system.

References

1. Kmiecik, Sebastian; Gront, Dominik; Kolinski, Michal; Wieteska, Lukasz; Dawid,

Aleksandra Elzbieta; Kolinski, Andrzej (2016-06-22). "Coarse-Grained Protein Models and Their Applications". *Chemical Reviews*. doi:10.1021/acs.chemrev.6b00163. ISSN 0009-2665.

2. Reichman, O.J.; Jones, M.B.; Schildhauer, M.P. (2011). "Challenges and Opportunities of Open Data in Ecology". *Science*. 331 (6018): 703–5. doi:10.1126/science.1197962. PMID 21311007.

3. [www. Edureka.co/](http://www.Edureka.co/)

4. Christopher Matthews (26 April 2013). "Trouble With Your Investment Portfolio? Google It!". *TIME Magazine*. Retrieved 9 August 2013.

5. Philip Ball (26 April 2013). "Counting Google searches predicts market movements". *Nature*. Retrieved 9 August 2013.

6. Bernhard Warner (25 April 2013). "'Big Data' Researchers Turn to Google to Beat the Markets". *Bloomberg Businessweek*.

7. "'Big Data' Researchers Turn to Google to Beat the Markets". *Bloomberg Businessweek*. Retrieved 9 August 2013.

8. [8] Javier Andreu-Perez, Carmen C.Y. Poon, "Big data for Health", *IEEE journal of biomedical and health Informatics*, Vol. 19, No. 4, July 2015

9. B. Saraladevi, N. Pazhaniraja, P. Victor Paul, "Big Data and Hadoop-A Study in Security Perspective", 2nd International Symposium on Big Data and Cloud computing (ISBCC'15)

10. Hirak Kashyap, Hasin Afzal Ahmed "Big Data Analytics in Bioinformatics: A Machine Learning Perspective", *Journal of latex Class Files*, Vol. 13, No. 9, September 2014

11. Jelili Oyelade, Jumoke Soyeni "Bioinformatics, Healthcare Informatics and Analytics: An imperative for Improvement Healthcare System", *International Journal of Applied Information System (IJAIS) – ISSN: 2249-0868 Foundation of Computer Science FCS, New York, USA Vol. 8, No. 5, February 2015.*

12. Arushi Jain, Vishal Bhatnagar "Crime Data Analysis Using Pig with Hadoop", *International Conference on information Security & Privacy (ICISP2015), 11-12 December 2015, Nagpur, India*

13. V.Kirubha, S.Manju Priya, "Survey on Data Mining Algorithms in Disease Prediction", *International Journal of Computer Trends and Technology (IJCTT) – Volume 38 Number 3 - August 2016*

Index Terms

Computer Science

Biomedical

Keywords

Big data, Data Analytics, healthcare, bioinformatics, Hadoop.