Towards the Application of Big Data: A New Way to make Data Driven Healthcare Decision

Volume 134
Number 14

Year of Publication: 2016

Authors:
Tanvir Ahammad, Md. Sajib Al Mamun, Mehnaz Tabassum

10.5120/ijca2016908094

Abstract

In era of Big Data, large amounts of both structured and unstructured (also semi-structured) data are growing exponentially because of using social media, smart phones, archives and remote sensors. Most of these (approx. 80-90% data) are unstructured, commonly found in textual form and difficult to process using conventional database and software techniques. These large amounts of unstructured as well as complex data are giving new opportunities to the business organizations, governments, and researchers. Successful harnessing of Big Data provides valuable insights; improves data-driven decision making in healthcare, manufacturing, education, stock marketing, banking and insurance, agriculture, weather forecasting, travel and transportation, telecommunication, sports, and entertainment. This paper aims to emphasize on Big Data application and demonstrates that the analysis of healthcare data paves the way to make a better healthcare decision, reduce cost, and raise healthcare consciousness. The experimental analysis has been accomplished with a proposed methodology based on existing Text Mining and Natural Language Processing (NLP) techniques.
References


Index Terms

Computer Science                Information Sciences

Keywords

Knowledge Discovery from Healthcare Text, KDHT.