

UCD MICHAEL SMURFIT GRADUATE BUSINESS SCHOOL



UCD Michael Smurfit
Graduate Business School

MIS40520: Analytical Business Modelling

M(I)LP Assignment 2

Authors:

Goyal Shruti (16200726)
Gupta Deepak Kumar (16200660)

Lecturer:

Dr Paula Carroll

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Abstract

Literature Review: Big data Analytics for Healthcare

Shruti Goyal, Deepak Kumar Gupta and Dr James McDermott

Objective: To review big data analytics in healthcare.

Methods: The review describes big data analytics and its implementation in healthcare, highlights gaps in previous studies describes analytical platforms and examples, discusses the existing challenges, offers a conclusion and, states an open question for future work.

Results: The review provides the overview of advancements and changes in big data analytics for practitioners.

Conclusion: Big data analytics implementation in healthcare has seen a tremendous growth over past 6 years. However, there are few challenges which still need to be addressed.

Keywords: Healthcare, Data Analytics, Clinics, Systematic Review, Tools and Techniques

1. Introduction

Big Data refers to the large and complex datasets (structured or unstructured) that overwhelmed a business on daily basis, which traditional database management system could not be processed. Although, this concept is constantly changing with the everyday rapid explosion of data." Various attempts are defining big data essentially categorized it as a collection of data elements whose size, speed, type and or complexity require one to seek, adopt and invent new hardware and software mechanisms in order to successfully store, analyze and visualize the data." (?)

Four V's of Big Data

To understand what exactly big data is, one needs to understand the four V's of Big Data (?):



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Figure 1: Four V's of Big Data

Source: <http://www.datasciencecentral.com/profiles/blogs/data-veracity>

A. Title of Appendix A

Text of Appendix A is Here