

Big Data

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Abstract—In modern day computing, the term Big Data has become increasingly popular and equally significant. In a nutshell, it's a term that's used to describe large amounts of data. This Data is being created and stored on a massive scale globally. The purpose of this literary review is to delve into the world of Big Data and ascertain where it's used, why organisations want it and where it fits into our modern day society.



1 INTRODUCTION

WE live in an ever changing world and technology is one of the things that's moving quickly. There are millions of devices globally that are storing, sending and receiving large amounts of data and there are multiple reports suggesting that the rate of data creation will continue to grow at a rate between 40 and 60% a year[1]. IBM have stated that there are 2.5 quintillion bytes of data created every day and that the last two years has seen 90% of the worlds data created[2]. This data is being created by a number of different devices and sources, for example mobile phones that are so much more than call making devices. The University of cambridge suggest that by 2020, 80% of the worlds population will own a mobile phone[3]. With these predictions and statistics, it's fair to say that data creation will continue to increase. Social media has seen a dramatic increase in usage, reports suggest that Facebook are dealing with a billion content information queries per day[4]. But it's not just Social Media that's creating large amounts of data, Netflix are accumulating billions of viewer ratings, with members searching and adding millions of items each day[4]. It's also worth highlighting that with these increases in data creation / production, there will inevitably be an increase in Data related positions and careers. The UK government have reported that they predict an increase in demand for Big Data staff of between 13 and 23% between now and 2017[5]. To add further to this domino effect, it's important to mention that data needs to be stored somewhere if it's going to be of any use and i'm not just talking about excel spreadsheets or traditional databases methods, but something that works on a much larger scale, that can deal with the vast amounts of data and information being circulated globally. This increase creates a need for better software to handle the data, bigger and better servers to store it and more staff to operate them.

1.1 A COMPREHENSIVE LOOK AT DATA

1.2 THE IMPORTANCE OF BIG DATA

1.3 DATA ANALYTICS

1.4 DATA MINING

1.5 DATA WAREHOUSING

1.6 BIG DATA, THE NEXT STEPS

2 CONCLUSION

The conclusion goes here.

APPENDIX A

PROOF OF THE FIRST ZONKLAR EQUATION

Appendix one text goes here.

APPENDIX B

Appendix two text goes here.

REFERENCES

- [1] OECD (2013) New sources of growth- knowledge based capital. OECD, Paris. <http://www.oecd.org/sti/inno/knowledge-based-capital-synthesis.pdf>.
- [2] Harness the Power of Big Data The IBM Big Data Platform <https://www-01.ibm.com/software/data/bigdata/what-is-big-data.html>
- [3] <http://www.cam.ac.uk/research/discussion/talkin-bout-a-revolution-how-to-make-the-digital-world-work-for-us>
- [4] Amatriain X (2013) Beyond Data: from user information to business value through personalized recommendations and consumer science, CIKM13. San Francisco, CA, USA
- [5] Seizing the data opportunity: A strategy for UK data capability bis-13-1250-strategy-for-uk-data-capability-v4.pdf

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Will Hogan Biography text here.