# INTERNATIONAL JOURNAL OF RESEARCH IN COMPUTER APPLICATION & MANAGEMENT



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### **CASE STUDY ON MINING BIG DATA**

M.DHANAMALAR ASST. PROFESSOR DEPARTMENT OF COMPUTER SCIENCE KRISTU JAYANTI COLLEGE BANGALORE

B.AYSHWARYA
ASST. PROFESSOR
DEPARTMENT OF COMPUTER SCIENCE
KRISTU JAYANTI COLLEGE
BANGALORE

### **ABSTRACT**

Big Data is a broad term for datasets used to describe the exponential growth and availability of data, both structured and unstructured., we cannot handle them with our existing methodologies or data mining tools. Big Data is the capability of extracting valuable information from these large datasets or streams of data, that due to its volume, variability, and velocity, it was not possible before to do it.

### **KEYWORDS**

tools, 5Vs, application.

### I. INTRODUCTION

In Recent years there are lot of tools & technologies available to collect data from various devices in different formats, from independent or connected applications. This data overflow has capability to process, analyze, store and understand these datasets. Consider the Internet data. The web pages indexed by Google were around one million in 1998, but quickly reached 1 billion in 2000 and have already exceeded 1 trillion in 2008. As per Google in 2013 it reached 30 trillion unique individual pages. It increased 30 times in five years. To store all that data, it need over three million 32GB USB thumb drives. This rapid expansion is accelerated by the dramatic increase in acceptance of social networking applications, such as WhatsApp, Linkeldn, Google plus, Face book, Twitter, Instagram, etc., that allows individuals to create a public profile, to create a list of users with whom to share connections, and view and cross the connections within the system. In addition, with smart phones a device that combines a cell phone with a hand-held computer, typically offering Internet access, data storage, email capability, etc. In day to day life lot of bill payments (recharge, credit card, bus booking etc.,) are doing through smart phones. People and devices (from home, shopping mall to cars, to buses, railway stations and airports) are all loosely connected. Trillions of data and valuable information must be discovered from the data to improve value of life and build our world a better place.

### **II. BIG DATA**

Big data is a popular search query. Big data is data that exceeds the processing capacity of conventional database systems. The data is too big, moves too fast, or doesn't fit the strictures of your database architectures. Input data to big data systems could be chatter from social networks, web server logs, sensor technology and networks, satellite imagery, broadcast audio streams, banking transactions, MP3s of rock music, the content of web pages, scans of government documents, GPS trails, telemetry from automobiles, financial market data etc., Google now processes over 40,000 search queries every second on average which translates to over 3.5 billion searches per day. Number of Twitter search engine queries every day - 2.1 billion. Hours of video watched per month on you tube is 6 billion. We need new algorithms, and new tools to deal with all of this data.

To characterize different type of big data the five Vs of volume, velocity variety, veracity and variability are commonly used.

**Volume**- It is a scale of data. Big data implies enormous volumes of data. Now that data is generated by machines, networks and human interaction on systems like social media the volume of data to be analysed is very big. For example, 1) It is estimated that 2.5 trillion of gigabytes of data are created every day. 2) World population is 7 billion in that 6 billion of people using cell phones

**Velocity** – Velocity is analysis of streaming data. Data is being generated fast and need to be processed fast. It deals with speed at which data flows from sources like business processes, machines, networks and human interaction like social media sites, mobile devices, etc. The flow of data is massive and continuous. For example 1) Modern cars have close to 100 sensors that monitor item such as fuel level and tire pressure. 2) New york stock exchange captures 1TB of trade information during each trading session.

Variety – Variety is a different types of data both structured and unstructured. It is used to store data from sources like spreadsheets and databases. Now data comes in the form of emails, photos, videos, monitoring devices, PDFs, audio, etc. This variety of unstructured data creates problems for storage, mining and analysing data. For example, 1) Every month 30 billion pieces of content are shared in Facebook. 2) Every month 4 billion hours of videos are watched in you tube. Veracity- It refers to uncertainty of data. Accuracy of analysis depends on the source data. For example, the company is losing due to poor data management Variability- There are changes in the structure of the data and the process of being able to handle and manage the data effectively.

### The application of Big data are as per following:

Internet of things: It involves IoT-connected devices managed by hardware, sensor, and information security. "These devices are sitting in their customers' environment, and they phone home with information about the use, health, or security of the device".

A 360 degree view of the customer: Online dealers want to find out what customers are doing on their sites – which pages they visit, where they remain, how long they stay, and when they leave.

*Operation analysis*: Analyze a variety of data to improved business results. By using big data for operations analysis, organizations can gain real-time visibility into operations, customer experience, transactions and behaviour.

**Information Security**: Vendor is looking for an efficient way to store petabytes machine data. In the past, companies would store this information in relational databases. "These traditional systems weren't scaling, both from a performance and cost "so big data is a better option for storing machine data.

### III. BIG DATA ANALYSIS AND TOOLS

*Hadoop*: It is an open source framework and distributed processing of very large data sets on computer clusters. Hadoop consists of a storage part (Hadoop Distributed File System (HDFS)) and a processing part (Map Reduce). The Apache distributed data processing software is "Hadoop" and "big data" are used. Map Reduce is a programming model and software framework for writing applications that rapidly process vast amounts of data in parallel on large clusters of compute nodes. It's used by Hadoop, as well as many other data processing applications.

STORM: It's highly scalable, robust, fault-tolerant and works with nearly all programming languages. It is owned by twitter.

**MangoDB**: An open-source document database, mongoDB is model for developers to control over the final results and processes for handling Big Data. It is a Nosql database with document oriented, full index support, it has a flexibility to index any attribute and functionality. Rich, document-based queries and GridFS for storing files of any size without the risk of compromising your stack, mongoDB is a scaleable, flexible, and powerful solution for Big Data.

HBase: HBase is the non-relational data store for Hadoop. Features include linear and modular scalability, strictly consistent reads and writes, automatic failover support

CouchDB: CouchDB stores data in JSON documents can access via the Web or query using JavaScript. It offers distributed scaling with fault-tolerant storage.

**OrientDB**: This NoSQL database can store and can load graphs. It combines the flexibility of document databases with the power of graph databases, while supporting features such as ACID transactions, fast indexes, native and SQL queries, and JSON import and export.

Guavus: Guavus drives decision making with powerful analytics to combined with advanced data science and the ability to handle data in real time to derive actionable insights at the precise moment of opportunity.

### IV. OPERATIONAL VS ANALYTICAL

Two classes of Technology in big data are system that provide the real time interactive workload where data is captured and stored is operational big data and system that complex analysis of data is analytical big data.

**OPERATIONAL DATA**: For operational Big Data workloads, NoSQL Big Data systems such as document databases have emerged to address a broad set of applications, and other architectures, such as key-value stores, column family stores, and graph databases are optimized for more specific applications. NoSQL technologies, which were developed to address the shortcomings of relational databases in the modern computing environment, are faster and scale much more quickly and inexpensively than relational databases.

**ANALYTICAL DATA**: Analytical Big Data workloads, on the other hand, tend to be addressed by MPP database systems and MapReduce. These technologies are also a reaction to the limitations of traditional relational databases and their lack of ability to scale beyond the resources of a single server. Furthermore, MapReduce provides a new method of analyzing data that is complementary to the capabilities provided by SQL.

As applications gain traction and their users generate increasing volumes of data, there are a number of retrospective analytical workloads that provide real value to the business. Where these workloads involve algorithms that are more sophisticated than simple aggregation, MapReduce has emerged as the first choice for Big Data analytics. Some NoSQL systems provide native MapReduce functionality that allows for analytics to be performed on operational data in place. Alternately, data can be copied from NoSQL systems into analytical systems such as Hadoop for MapReduce.

### **OPERATIONAL DATA**

A company's operations are supported by applications that automate key business processes. These include areas such as sales, service, order management, manufacturing, purchasing, billing, accounts receivable and accounts payable. These applications require significant amounts of data to function correctly. This includes data about the objects that are involved in transactions, as well as the transaction data itself. For example, when a customer buys a product, the transaction is managed by a sales application. The objects of the transaction are the Customer and the Product. The transactional data is the time, place, price, discount, payment methods, etc. used at the point of sale. The transactional data is stored in On-Line Transaction Processing (OLTP) tables that are designed to support high volume low latency access and update.

### **ANALYTICAL DATA**

Analytical data is used to support a company's decision making. Customer buying patterns are analyzed to identify churn, profitability, and marketing segmentation. Suppliers are categorized, based on performance characteristics over time, for better supply chain decisions. Product behavior is scrutinized over long periods to identify failure patterns. This data is stored in large Data Warehouses and possibly smaller data marts with table structures designed to support heavy aggregation, ad hoc queries, and data mining. Typically the data is stored in large fact tables surrounded by key dimensions such as customer, product, supplier, account, and location.

### V. CONCLUSION

The study concluded that Big Data is a broad term for datasets used to describe the exponential growth and availability of data, both structured and unstructured, we cannot handle them with our existing methodologies or data mining tools. Big Data is the capability of extracting valuable information from these large datasets or streams of data, that due to its volume, variability, and velocity, it was not possible before to do it.

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In this age of Commerce, Economics, Computer, I.T. & Management and cut throat competition, a group of intellectuals felt the need to have some platform, where young and budding managers and academicians could express their views and discuss the problems among their peers. This journal was conceived with this noble intention in view. This journal has been introduced to give an opportunity for expressing refined and innovative ideas in this field. It is our humble endeavour to provide a springboard to the upcoming specialists and give a chance to know about the latest in the sphere of research and knowledge. We have taken a small step and we hope that with the active cooperation of like-minded scholars, we shall be able to serve the society with our humble efforts.







