

Data Handling and Business intelligence

by Mihai Mirita

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Submitted by:- Mihai Mirita

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Introduction

Business intelligence is expected to continue evolve and adapt to new technological advancement and market Trend. Upcoming time period artificial intelligence will clear significant role in business intelligence capabilities because machine learning algorithm will focus on identification of pattern data analysis and providing predictive insights. There is development of artificial intelligence powered chat box and virtual assistance which is becoming more prevalent and enabling natural language queries (Puklavec, Oliveira. and Popovič, 2018). Apart from this the demand for real time and data and it takes will be increasing in upcoming future time period and various business intelligence system will be required to analyse and process data streams and real time. Further it is identified that augmented analytics is based on combining artificial intelligence and data visualisation to automate analysis data preparation and reporting. Preset report is based on analysing the overall concept of business intelligence and the way different aspects in business intelligence are transforming the present functioning of organisations.

Main body

As per the article it is identified that information technology departments are facing competitive advantage which has increase pressure to deliver high quality Technology solutions. Business intelligence system is regarded as the use of process technology and strategies to transform and analyse the raw data into actionable inside for effective decision making in the organisation. It is identified from the articles that there are specific trends and business intelligence which leverage different models as mention below.

Real time data processing: Traditional BI systems is relied on the process of data which is updated periodically however the demand for real time insights has led to adoption of Technology is like data processing. It also helps in the process of making decisions based on up to date confirmation (Eidizadeh, Salehzadeh and Chitsaz Esfahani, 2017).

Advance analytics: Business intelligent systems are increasingly incorporating advanced analytic technique such as machine learning, predictive modelling and artificial intelligence. These

technologies help organisation to discover hidden patterns, predict future outcomes and optimise the overall decision making process.

Data mining: Data Mining is important component of business intelligence system it is based on extracting meaningful patterns and insights from large data set. Data mining techniques such as classification clustering association roles help organisation to segment customers identifies trends improve targeting and focus on data driven decisions.

Data visualisation: Visual representation of data is gaining significant importance and business intelligence system. There is development of interactive and intuitive dashboards graph charts and info graphic which are used for present in complex that I know more simplified and visually appealing manner.

Data warehousing: data warehousing is a central depository which integrates ¹⁰ data from various sources and further organised into a structured manner. Further this data is made accessible for analysis and reporting in context of business intelligent system data warehousing plays a very important role in consolidating and collecting data from multiple operation system. The overall collected data is transformed in a consistent format and stored for future analysis. This process enables organisations to have a unified view of their data which facilities better decision making. Real time analytics with growth of Technology is like streaming data sources real time analytics as become a significant trend in business intelligence. Modern business intelligence system are capable of analysing and processing data and real time which is further helping business organisation to monitor key Matrix and make immediate decisions as per available up to date confirmation (Bhosale and et.al., 2020).

Self service BI: Empowering business users to access and analysis of data independently that is growing trend. Self service BI tools are offering interface drag and drop functionalities that are a growing trend. Self service BI tools help in the process of allow non technical users to explore data create reports and generate insights without a lying on information technology departments.

Cloud based BI: It is based on cloud computing which has transformed the business intelligent landscape by opening scalable cost effective and flexible solutions. Cloud base business intelligent platforms offer benefits such as easy data integration reduce infrastructure cost and focus on demand scalability reasonable organisation to leverage powerful business intelligence capabilities.

Integration of IoT and Big data: The rise of internet of things and big data has opened new opportunities for business intelligence. There is integration of big data sources which helps organisation to gather real time data in evening predictive analytics insights and improving operations efficiency.

Mobile BI: Mobile devices are becoming in dispensable tools for business professionals mobile business intelligence applications and responsive dashboard enables user to access critical insights and perform analysis insurance decision making which is not limited to the office environment.

Augmented analytics: Augmented analytics combine natural language processing capabilities and machine learning with traditional business intelligent techniques. It helps in automation of data, insights generation and report creation. It helps in empowering users with augmented insights and recommendations to enhance over all decision making process.

Article view points

As per Rosa. E (2017), it is identifying that results on ⁵ business intelligence research has created a positive and significant impact on knowledge sharing organisation innovation and gaining competitive advantage. Business intelligence has created a positive and significant impact on competitive advantage to organisational innovation and knowledge sharing process (Lopes Fonsêca, 2022). It is also understood that organisation innovation has affected the process of gaining competitive advantage and a positive and significant manner.

Further the paper Deanne Larson (2016), focused on the viewpoint that there is ⁹ recent developments in the adoption of agile principles to business intelligent delivery and the way a ¹ child has changed the face of business intelligent. Fast and data science has been included in the umbrella of Business intelligence. Agile has addresses different common problems which are found in business intelligent projects by promotion of interaction and collaboration between different stakeholders (Foley. and Guillemette, 2010).

It is also analysed in this research work based on ideas and principle has been published in ¹ Beck et al (2001), since this time various practitioners are focus on application approach to business intelligence. The challenges that business intelligent projects are facing are making a Jaal approach more attractive and are focused on more customer centre approach. ¹ The basis for this framework is established through the analysis and synthesis of principles data science and fast analytics. Agile practices are also adopted by business intelligence plantations and various

reasons ¹ research has supported success in this area (Thamir and Poulis, 2015). Further business intelligence is affected by big data and analysis which is focused on predictive and prescriptive analysis (El-Adaileh and Foster, 2019).

Conclusion

It is concluded from above discuss perspective that with the evolution of business intelligent system towards more advanced analytics has helped in enhancing ability and increasing focus on security as well as perspectives of data governance. With changing time period there is leverage of data warehousing data mining and other models which is helping organisations to derive valuable insights and also focus on optimisation of resources to gain better competitive advantage. It is also analyse that mobile devices have become indispensable tools for business professionals and focus on combining natural language processing and machine learning capabilities with traditional be Technology.

Reference

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