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The Role of Data Analytics in Business Intelligence

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ABSTRACT: In today's data-driven world, organizations rely on Business Intelligence (BI) to gain insights and make informed decisions. Data analytics plays a crucial role in enhancing BI by transforming raw data into actionable intelligence. This paper explores the significance of data analytics in BI, its methodologies, applications, and the benefits it offers to businesses.

Certainly! In addition to its transformative role, data analytics within Business Intelligence (BI) frameworks continues to evolve, driven by technological advancements and increasing data complexity. Modern BI solutions not only focus on descriptive analytics (what happened) but also emphasize predictive (what might happen) and prescriptive analytics (how to make it happen). These methodologies enable businesses to not only understand historical trends but also forecast future outcomes and prescribe optimal actions.

Applications of data analytics in BI span across various industries, including finance, healthcare, retail, and manufacturing. For instance, in healthcare, predictive analytics helps in forecasting patient trends and optimizing resource allocation, while in retail, it aids in demand forecasting and personalized marketing strategies.

The benefits of leveraging advanced analytics in BI are manifold. They include improved decision-making based on data-driven insights, enhanced operational efficiency through automation and optimization, better understanding of customer behavior and preferences, and proactive risk management through predictive modeling.

Furthermore, the integration of artificial intelligence (AI) and machine learning (ML) technologies enhances BI capabilities by enabling automated pattern recognition, anomaly detection, and natural language processing (NLP). These advancements empower organizations to extract deeper insights from vast datasets in real-time, thereby facilitating quicker and more accurate decision-making processes.

As businesses continue to embrace digital transformation, the role of data analytics in BI will remain pivotal, driving innovation, competitiveness, and sustainable growth in the global market landscape.

KEYWORDS: Business Intelligence, Data Analytics, Big Data, Artificial Intelligence, Machine Learning, Predictive Analytics, Decision-Making, Data Warehousing, Cloud Computing, Real-Time Analytics.

I. INTRODUCTION

In today's data-driven economy, businesses operate in an environment where information is a critical asset. Organizations generate vast amounts of data from various sources, including customer interactions, social media, financial transactions, supply chains, and IoT sensors. However, raw data alone holds little value unless it is properly analyzed and transformed into meaningful insights. This is where **Business Intelligence (BI)** comes into play. BI encompasses the strategies, processes, and technologies that enable enterprises to collect, process, and analyze data, ultimately supporting strategic and operational decision-making.

The rise of **big data** has amplified the importance of BI. As data volume, velocity, and variety continue to grow, traditional data analysis methods are no longer sufficient. Organizations are increasingly turning to **data analytics**—a discipline that involves examining datasets to identify trends, patterns, and relationships. By leveraging advanced

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analytics techniques, businesses can optimize operations, enhance customer experiences, and gain a **competitive edge** in their respective industries.

Data analytics is a key enabler of BI, empowering companies to **shift from reactive decision-making to proactive and predictive insights**. Instead of relying on historical reports alone, businesses can now leverage real-time analytics and machine learning algorithms to forecast future outcomes and mitigate risks before they occur. This capability is particularly valuable in industries such as finance, healthcare, retail, and manufacturing, where timely and data-driven decision-making is crucial.

Moreover, emerging technologies such as artificial intelligence (AI), machine learning (ML), cloud computing, and automation are transforming the BI landscape. AI-driven analytics tools can process vast datasets at unprecedented speeds, uncover hidden patterns, and provide real-time recommendations. Cloud-based BI solutions allow organizations to scale their data infrastructure efficiently, enabling seamless access to insights from anywhere in the world.

Business Intelligence	Data Analytics
Supports decision-making and business growth	Organizes, cleanses, predicts, and transforms data based on specific needs
Understands overall business operations	Answer specific questions, leading to a smaller scope for analytics within a business
Centers on descriptive data with a historical focus	Includes predictive and prescriptive analytics, looking into the future
Uses dedicated BI tools and historical data in data marts and warehouses	It relies on various data storage tools and BI tools depending on the strategy
BI and data analytics differ in reporting and data visualization based on scenarios and data types	Reporting is ideal for forecasting future trends using past data

This paper explores the role of data analytics in enhancing BI and its significance in driving business success. It delves into the different methodologies of data analytics, including descriptive, diagnostic, predictive, and prescriptive analytics, highlighting their applications across various industries. Additionally, the paper examines the benefits and challenges of integrating data analytics into BI and discusses how organizations can leverage analytics to improve performance, increase efficiency, and foster innovation.

Through real-world examples and case studies, this paper demonstrates how leading companies utilize BI and analytics to drive strategic decision-making, optimize operations, and create value in a rapidly evolving marketplace. By understanding the synergy between **data analytics and BI**, businesses can unlock new opportunities, enhance agility, and remain resilient in an increasingly competitive and data-centric world.

II. METHODOLOGY

This paper adopts a qualitative and analytical research approach to explore the role of data analytics in enhancing Business Intelligence (BI). The study follows an exploratory research design, incorporating a literature review, case study analysis, and industry insights to provide a comprehensive understanding of how data analytics contributes to BI-driven decision-making. The research involves reviewing scholarly articles, industry reports, company case studies, and technology whitepapers to analyze current trends, challenges, and advancements in BI and data analytics. Secondary data sources such as peer-reviewed journals, market research from firms like Gartner and McKinsey, and

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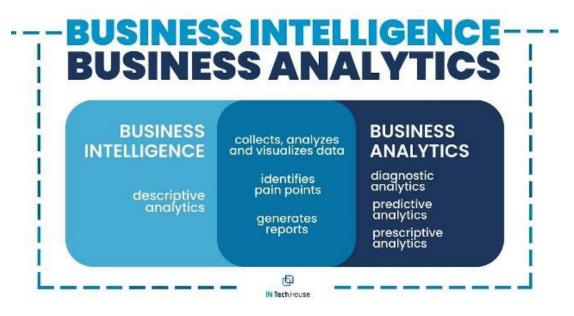
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reports from BI solution providers like Microsoft Power BI and Tableau are examined to assess the impact of analytics on decision-making.

To analyze the collected data, a qualitative content analysis is applied, identifying key themes, patterns, and technological impacts across industries. The study compares different analytical techniques, including descriptive, diagnostic, predictive, and prescriptive analytics, to evaluate their role in business decision-making. Additionally, it explores how emerging technologies such as artificial intelligence (AI), machine learning (ML), and cloud computing are reshaping BI capabilities.

While this research provides valuable insights, certain limitations are acknowledged. The study relies on **secondary data**, which may limit direct applicability to specific business scenarios. Additionally, variations in **industry-specific BI applications** may affect the generalizability of findings. The **rapid evolution of AI and analytics tools** also poses a challenge, as new developments may quickly outdate some insights. Despite these limitations, this methodology ensures a **comprehensive and well-rounded exploration** of data analytics in BI, offering valuable perspectives on optimizing business performance through data-driven decision-making.



III. UNDERSTANDING DATA ANALYTICS

Data analytics is the process of examining datasets to extract meaningful insights that drive strategic decision-making. It plays a crucial role in modern businesses by transforming raw data into actionable intelligence, improving efficiency, and fostering innovation. Data analytics encompasses various techniques that help organizations make data-driven decisions, including **descriptive**, **diagnostic**, **predictive**, **and prescriptive analytics**.

Descriptive Analytics focuses on summarizing historical data to identify trends and patterns, helping businesses understand past performance. Organizations use descriptive analytics to generate reports, dashboards, and visualizations, offering a clear picture of key performance indicators (KPIs). For example, an e-commerce company can analyze monthly sales reports to identify seasonal purchasing trends.

Diagnostic Analytics goes a step further by analyzing data to determine the causes behind certain events. It involves data mining, drill-down analysis, and statistical correlations to identify factors influencing business performance. For instance, a retailer experiencing a sudden drop in sales might use diagnostic analytics to uncover whether it resulted from supply chain disruptions, pricing changes, or shifts in customer preferences.

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Predictive Analytics leverages statistical models, artificial intelligence (AI), and machine learning (ML) to forecast future outcomes based on historical data. Businesses use predictive analytics to anticipate customer demand, detect potential fraud, and assess market trends. A financial institution, for example, can analyze transaction data to identify customers likely to default on loans, allowing for proactive risk management.

Prescriptive Analytics takes predictive insights further by recommending specific actions to optimize outcomes. By applying advanced algorithms, optimization models, and AI-driven decision-making, prescriptive analytics helps businesses choose the best course of action. Logistics companies, for example, use prescriptive analytics to optimize delivery routes by considering factors such as real-time traffic conditions, fuel costs, and weather forecasts.

Data analytics empowers organizations to move from **reactive decision-making** (responding to events after they happen) to **proactive strategies** (anticipating and preventing potential challenges). By integrating analytics with Business Intelligence (BI) tools, companies can gain deeper insights into **customer behavior**, **market trends**, **operational inefficiencies**, **and financial performance**. Furthermore, **real-time analytics** enables businesses to react swiftly to changing market conditions, providing a competitive edge in dynamic industries.

The growing adoption of big data technologies, cloud computing, and AI-driven analytics has significantly enhanced BI capabilities. Businesses now have access to vast amounts of structured and unstructured data, allowing them to make highly informed, data-driven decisions. However, successful implementation requires robust data governance, infrastructure, and skilled professionals to manage and interpret complex datasets effectively.

By leveraging data analytics, organizations can **improve efficiency**, **drive innovation**, **personalize customer experiences**, **and mitigate risks**. As industries continue to evolve, the ability to harness the power of data will remain a key differentiator for businesses striving for long-term success.

IV. ROLE OF DATA ANALYTICSIN BUSINESS INTELLIGENCE

Data analytics enhances Business Intelligence (BI) by transforming vast amounts of raw data into actionable insights that drive business success. By leveraging advanced analytical techniques, organizations can gain a competitive edge, improve operational efficiency, and make well-informed strategic decisions. The integration of data analytics with BI provides a **holistic view** of business operations, enabling companies to proactively address challenges and seize new opportunities.

4.1. Improved Decision-Making

Data analytics provides **evidence-based insights** that help businesses make more informed strategic and operational decisions. Instead of relying on intuition or past experiences, executives can use **data-driven analysis** to support their choices. Predictive modeling, scenario analysis, and AI-driven decision engines help organizations evaluate **future outcomes**, mitigate risks, and optimize resource allocation. For example, a **retail chain** can use predictive analytics to determine the ideal stock levels for different locations based on seasonal demand patterns, reducing overstock and minimizing losses.

4.2. Enhanced Customer Insights

By analyzing customer behavior, preferences, and purchasing patterns, businesses can create **personalized marketing campaigns**, improve customer retention, and enhance overall satisfaction. Advanced analytics tools enable businesses to segment their customer base, predict future buying behaviors, and tailor promotions accordingly. For instance, ecommerce companies use **recommendation engines** powered by AI to suggest products based on past browsing history and purchases, thereby increasing conversion rates. Additionally, sentiment analysis on social media and customer reviews helps organizations gauge public perception and refine their marketing strategies.

4.3. Operational Efficiency

Data analytics helps businesses identify inefficiencies and streamline operations to maximize productivity and reduce costs. By analyzingworkflow data, supply chain performance, and employee productivity, companies can automate repetitive tasks, eliminate bottlenecks, and optimize resource utilization. Manufacturing firms, for example, use real-time data analytics to monitor production lines, detect potential equipment failures before they occur, and schedule predictive maintenance, ultimately reducing downtime and operational costs.

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4.4. Risk Management and Fraud Detection

Advanced analytics techniques, such as anomaly detection and machine learning, enable businesses to **identify risks**, **detect fraud**, **and strengthen cybersecurity measures**. Financial institutions leverage **fraud detection models** to analyze transaction patterns and flag suspicious activities in real time. Similarly, businesses in the insurance sector use predictive analytics to assess claim legitimacy and prevent fraudulent claims. Additionally, **risk analytics** helps businesses evaluate market fluctuations, credit risks, and compliance violations, ensuring they remain resilient against financial uncertainties.

4.5. Real-Time Monitoring and Business Agility

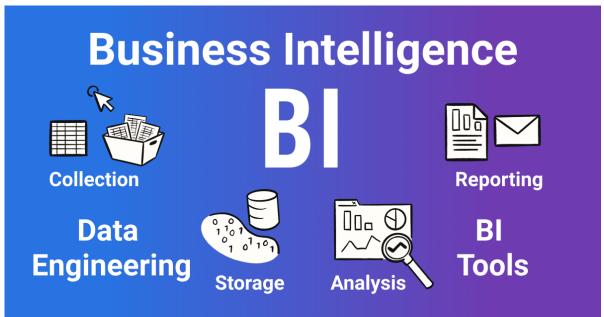
With real-time analytics, businesses can track key performance indicators (KPIs) and adjust strategies dynamically. Real-time dashboards and alerts provide instant insights into operational performance, sales trends, and market changes, enabling quick decision-making. This capability is especially beneficial in industries like healthcare, finance, and logistics, where immediate actions based on live data can have significant impacts. For example, ride-hailing services use real-time data analytics to adjust pricing dynamically based on demand, ensuring optimal utilization of resources and maximizing profitability.

4.6. Competitive Advantage and Market Adaptation

Organizations that effectively integrate data analytics into their BI systems gain a **competitive advantage** by staying ahead of market trends and consumer demands. Businesses can use data to identify **emerging opportunities**, **benchmark against competitors**, **and develop innovative products and services**. Market leaders like Amazon and Google use vast amounts of data to refine their offerings, predict future trends, and maintain industry dominance.

4.7. Scalability and Future-Proofing

As data volumes continue to grow, businesses must adopt scalable analytics solutions to manage, process, and analyze data efficiently. Cloud-based BI tools and AI-driven analytics solutions enable organizations to handle massive datasets without compromising speed and accuracy. Moreover, integrating big data analytics, blockchain, and IoT (Internet of Things) technologies into BI systems ensures businesses remain future-ready and adaptable to evolving market conditions.



By utilizing advanced data analytics, organizations can unlock the full potential of their data, improve decision-making, optimize operations, and enhance customer experiences. This data-driven approach not only increases profitability and efficiency but also ensures long-term business growth and sustainability in an increasingly competitive landscape.

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V. APPLICATIONS OF DATA ANALYTICS IN BUSINESS INTELLIGENCE (BI)

Data analytics has transformed Business Intelligence (BI) by providing organizations with data-driven insights that drive strategic decisions, optimize operations, and enhance customer experiences. By applying big data analytics, artificial intelligence (AI), and machine learning (ML) to various business functions, companies can increase efficiency, reduce costs, and stay competitive in an increasingly digital world. In marketing and sales, data analytics helps businesses understand consumer behavior, segment target audiences, and optimize marketing strategies. Companies use clustering algorithms and predictive analytics for customer segmentation, enabling targeted marketing and personalized promotions. AI-powered recommendation systems, like those used by Amazon and Netflix, enhance customer engagement by suggesting relevant products based on past interactions. Marketing teams rely on campaign performance analysis and sentiment analysis tools to assess advertising effectiveness and adjust branding strategies accordingly. In finance and risk management, data analytics is crucial for fraud detection, risk assessment, and financial forecasting. AI-driven anomaly detection systems monitor real-time transactions to identify suspicious activity, while predictive models help financial institutions evaluate credit risks and optimize investment decisions. Hedge funds and banks leverage algorithmic trading to automate high-frequency trades using real-time market data. Additionally, financial forecasting tools assist CFOs in cash flow management and budgeting.

In supply chain and logistics, businesses utilize predictive analytics for demand forecasting, allowing them to optimize inventory levels and prevent overstocking or stockouts. AI-driven logistics systems enhance real-time tracking, route optimization, and warehouse management, improving delivery efficiency and reducing costs. Supplier performance analysis ensures organizations partner with reliable vendors by evaluating delivery times and cost-effectiveness. Data analytics is also transforming human resources (HR) by improving talent acquisition, workforce planning, and employee performance management. AI-driven recruitment tools analyze candidate profiles to match skills with job requirements, while workforce analytics helps businesses predict staffing needs and reduce employee turnover. HR teams use diversity and inclusion analytics to ensure equal opportunities and create an inclusive workplace environment.

In healthcare, data analytics enhances patient care, medical research, and operational efficiency. AI-driven predictive models help detect disease outbreaks, while electronic health record (EHR) analysis allows for personalized treatment plans. AI-powered medical imaging tools assist in diagnosing conditions such as cancer and fractures with greater accuracy. Hospitals and healthcare providers use analytics to improve resource allocation, reduce wait times, and optimize staff scheduling. The pharmaceutical industry leverages data analytics in drug discovery and clinical trials, accelerating the development of new treatments. In retail and e-commerce, businesses use AI-driven insights to optimize pricing strategies, improve inventory management, and personalize customer experiences. Retailers analyze online and in-store customer behavior to tailor product offerings and promotions. Dynamic pricing algorithms adjust prices in real time based on demand, competition, and stock availability. AI-powered chatbots and augmented reality (AR) shopping experiences enhance customer engagement and satisfaction.

The integration of AI and big data technologies has further enhanced BI applications, making them more automated, real-time, and predictive. AI-powered BI tools process vast amounts of data with minimal manual intervention, enabling businesses to make informed decisions quickly. Real-time dashboards allow companies to monitor key performance indicators (KPIs) and adjust strategies dynamically. Predictive and prescriptive analytics provide actionable recommendations, optimizing business processes and improving customer interactions through AI-driven chatbots and virtual assistants. Organizations across industries are leveraging AI and IoT-enabled analytics to improve fraud detection, supply chain management, and asset optimization.

VI. TOOLS AND TECHNOLOGIES FOR DATA ANALYTICS IN BI

The tools and technologies used in data analytics for Business Intelligence (BI) play a critical role in transforming raw data into actionable insights. Organizations leverage a variety of software, platforms, and frameworks to analyze, visualize, and interpret data for better decision-making. These tools can be broadly categorized into data processing and storage technologies, analytics and machine learning frameworks, data visualization tools, and cloud-based BI platforms.

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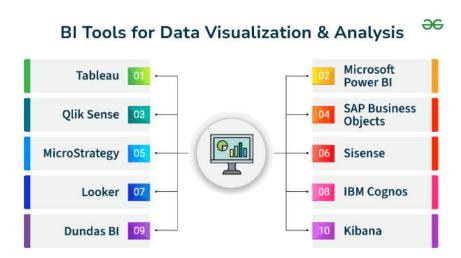
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Data processing and storage technologies form the foundation of data analytics in BI. Businesses deal with vast amounts of structured and unstructured data, requiring robust storage and processing solutions. Relational Database Management Systems (RDBMS) like MySQL, PostgreSQL, and Microsoft SQL Server store structured data efficiently, while NoSQL databases such as MongoDB and Cassandra handle unstructured and semi-structured data. Big Data technologies like Apache Hadoop and Apache Spark enable distributed data processing, allowing organizations to analyze massive datasets quickly. Data lakes, powered by tools like Amazon S3, Google BigQuery, and Azure Data Lake, provide scalable storage solutions that facilitate seamless integration with analytics tools.

Analytics and machine learning frameworks help organizations extract meaningful patterns from data. Python and R are widely used programming languages for statistical analysis and machine learning, offering powerful libraries like Pandas, NumPy, Scikit-learn, and TensorFlow. Apache Spark MLlib and Google TensorFlow allow businesses to build scalable machine learning models for predictive analytics. Additionally, AutoML tools such as Google AutoML and H2O.ai automate the process of developing AI models, reducing the need for extensive coding expertise. Cloud-based analytics services like AWS SageMaker, Microsoft Azure ML, and Google AI Platform provide scalable and flexible machine learning capabilities for enterprises.

Data visualization tools play a crucial role in presenting analytical findings in an easy-to-understand format. **Tableau**, **Power BI**, **and Google Looker** allow businesses to create interactive dashboards and reports for real-time decision-making. Open-source tools like **Matplotlib**, **Seaborn**, **and D3.js** enable custom data visualizations for advanced analytics applications. These tools help organizations identify trends, monitor key performance indicators (KPIs), and communicate insights effectively across departments.

Cloud-based BI platforms have revolutionized data analytics by offering scalable, flexible, and real-time analytical capabilities. Google BigQuery, AWS Redshift, and Snowflake provide cloud-based data warehousing solutions, enabling organizations to store and query massive datasets efficiently. SaaS BI solutions like Salesforce Einstein Analytics and IBM Cognos Analytics offer AI-driven insights, predictive modeling, and automated reporting functionalities. Self-service BI tools empower business users to explore and analyze data without needing advanced technical expertise, promoting a data-driven culture within organizations.



By leveraging these tools and technologies, businesses can enhance their BI capabilities, drive innovation, and gain a competitive advantage. The continuous advancements in AI, machine learning, and cloud computing are further expanding the potential of data analytics in BI, allowing organizations to make faster, more accurate, and more strategic decisions.

VII. CONCLUSION

Data analytics has become an essential component of Business Intelligence (BI), enabling organizations to transform vast amounts of raw data into valuable insights that drive informed decision-making. By leveraging advanced analytical

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techniques such as descriptive, diagnostic, predictive, and prescriptive analytics, businesses can gain deeper visibility into customer behavior, operational performance, and market trends. The integration of AI, machine learning, and big data technologies has further enhanced the capabilities of BI, making data-driven decision-making more accurate, real-time, and efficient.

Organizations across various industries—such as finance, healthcare, retail, supply chain, and human resources—benefit from data analytics in optimizing processes, improving customer experiences, and mitigating risks. The use of powerful tools and technologies, including data storage solutions, analytics frameworks, visualization platforms, and cloud-based BI systems, has made it easier for businesses to harness the full potential of their data. With the continuous evolution of AI, IoT, and cloud computing, the future of BI will be driven by even more sophisticated analytics capabilities, enabling businesses to stay ahead in an increasingly competitive and data-driven world.

Ultimately, organizations that adopt and integrate advanced data analytics strategies into their BI frameworks will gain a significant competitive advantage. By embracing data-driven decision-making, businesses can improve efficiency, drive innovation, and achieve sustainable growth in an ever-evolving digital landscape.

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