**GenZ**

Business Intelligence

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**Introduction**

* The concept where the structured and unstructured data has been imported and represented diagrammatically and with many visualizations. It also involves the collection of data, and interpretation of the data.
* By utilizing BI, companies can gain a deeper understanding of their operations, identify patterns and trends, monitor key performance indicators, and make data-driven decisions to drive growth and competitive advantage.
* The importance of Business Intelligence can not be overstated in today’s highly competitive business landscape. The rapid advancement of technology and the exponential growth of data, organizations need effective ways to gather, and analyze information to gain a competitive edge.
* It additionally provides a framework and tools for extracting important insights from large datasets. Companies can use BI to optimize performance, increase operational efficiency, improve customer happiness, and promote innovation in the business environment.

**Benefits of Utilizing B.I.:**

* The benefits of utilizing a Business Intelligence (BI) system include:

1. **Data-driven decision-making:** BI provides access to accurate and timely data, empowering organizations to make informed decisions based on insights and trends.
2. **Improved operational efficiency:** BI streamlines data collection, analysis, and reporting processes, reducing manual effort and saving time for employees.
3. **Enhanced performance monitoring:** BI enables real-time monitoring of key performance indicators (KPIs) and metrics, allowing organizations to identify areas for improvement and take proactive measures.
4. **Identification of market trends:** BI helps organizations identify market trends, customer preferences, and emerging opportunities, enabling them to adapt strategies and stay competitive.
5. **Increased revenue and profitability:** By analyzing sales data, customer behavior, and market trends, BI helps organizations identify revenue-generating opportunities and optimize pricing strategies.
6. **Data visualization and storytelling:** BI tools offer intuitive visualizations and dashboards that make complex data easy to understand and share with stakeholders, facilitating effective communication and storytelling.
7. **Improved data quality and governance:** BI systems promote data standardization, data cleansing, and data governance practices, ensuring data integrity and accuracy across the organization.
8. **Risk mitigation:** BI enables organizations to detect and mitigate risks by analyzing historical data, identifying patterns, and implementing proactive measures to prevent potential issues.

**Key Features in B.I:**

* There are some key features in B.I. which we are going to add additionally are as follows:

1. **Adding Structured and Unstructured Data:**
   * Structured data refers to organized and predefined data that fits into a specific data model or schema.
   * For instance, Customer information, sales transactions, inventory records, financial data, etc.
   * Unstructured data refers to lacks a predefined structure or organization. It is often generated in large volumes and comes in various formats, such as text documents, emails, posts, audio files, and many more.
   * Unstructured data does not conform to traditional database tables and is typically not easily searchable or analyzable using conventional methods. However, advancements in natural language processing (NLP) and machine learning techniques have enabled the extraction of insights from unstructured data.
2. **Automation Workflows:**
   * It can provide proactive and automated notifications to users about important events, anomalies, or trends in the data. These alerts we can use to leverage Artificial intelligence and machine learning to analyze the data continuously and to identify significant changes.
   * There are some alerts which we can use at the time of performance of our product.
3. **Threshold-based Alerts.**
4. **Forecast Deviation Alerts.**
5. **Data Quality Alerts.**
6. **Operational Alerts.**
7. **Pattern Recognition Alerts.**
   * These alerts will inform the important changes to the customers, they can also identify the issue so that they can take timely actions.
8. **Mobile BI:**
   * This feature can enhance the accessibility of the product by providing users with on-to-go access to critical information and insights. We can improve our product by providing this feature and it will improve in many ways.
   * We can increase the user engagement by enabling users to access dashboards, reports, anywhere at anytime using their smartphones, and laptops. We can also generate Real-time insights by allowing users real-time data and receive updates on key metrics instantly.
9. **Graph Customization:**
   * It involves providing users with the ability to tailor the appearance, layout, and behavior of graphs and visualization to the meet their specific needs and preferences.
   * This customization gives the users to presents their data in more meaningful way and in better way.
   * There are some better ways in the graph customization the ways are as below: -
10. Chart Types
11. Color Palettes
12. Axes and labels
13. Legend and Data Labels.
    * This are some ways from which we can use the graph customization.