

HOW DO YOU

EXTRACT THE TRUE VALUE OF YOUR
DATA WITH POWER BI?

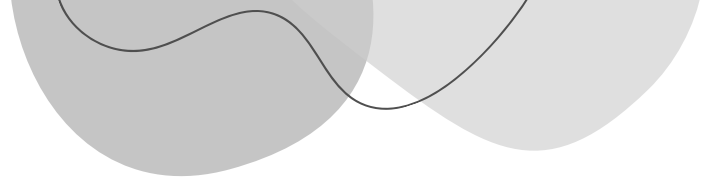


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Data analytics is the process of analyzing large amounts of data to find patterns and trends and draw useful conclusions. It enables businesses to derive insights from real-time and historical data to aid decision-making. Modern technology and techniques are required for data analytics.

Data analytics includes business intelligence, reporting, and data visualization. These factors combine to assist businesses in adopting a data-driven approach and streamlining business processes. Microsoft's Power BI is one of the most well-known business intelligence products on the market.

Power BI is used by a number of SMEs and large corporations around the world to connect, model, visualize, and exchange data. You can either hire Power BI experts or rely on consulting businesses' offshore Power BI services.

Power BI, according to Microsoft, is a powerful tool for bridging the gap between data and decision-making. It offers a number of features that assist you in extracting the true worth of data and understanding it so that you can make the best business decisions possible.

Power BI packages

Power BI is a collection of tools and services. These can be utilized separately or in combination to help the company achieve its goals.

- **Power BI Desktop:** This is a free self-service tool that connects to more than 70 internal and cloud data sources. It aids in data analysis and report generation.
 - **Power BI Service:** This service is a cloud-based service that allows employees to access dashboards and reports from a variety of devices using Microsoft's cloud platform (browser, mobile, etc.).
 - **Power BI Pro:** This is a commercial cloud-based solution with extra capabilities that help teams collaborate more effectively. It provides for seamless data report sharing and the integration of data graphics into Power BI apps.
 - **Power BI Premium:** This isn't an application. In fact, it's a cloud-based tool that lets you share information with people outside of your company. It gives the program more flexibility and scalability, making it easier for any size business to implement Power BI.
 - **Power BI Mobile:** This application is compatible with Android, iOS, and Windows 10 smartphones.
 - **Power BI Report Server:** This is how you get to the reports you made on the desktop or in the Pro edition. It's an on-premises report server that lets your staff view reports from any device and from any place. If you only have a limited amount of storage capacity in the cloud or in external data centres, this is a good option.
 - **Power BI Embedded:** This is for developers who want to integrate Power BI with other enterprise tools and applications.
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The Benefits of Using Power BI

Power BI is without a doubt one of the best solutions for maximizing your business intelligence capabilities and gaining an advantage over industry competitors.

Features: Power BI includes a wealth of capabilities that make it easier to handle, analyze, and present data in visually appealing and understandable formats. Data visualizations can be created either individually or collaboratively.

System Integration: Power BI may be integrated into a variety of apps to create and share reports across the organization. The features can be tailored to meet the specific demands of any company.

Convenient Accessibility: Because Microsoft Power BI can be utilized on a variety of operating systems and devices, it improves data and data analytics accessibility. The apps are simple to use and may be used by staff with little or no Power BI experience. This, however, is only applicable to end-user features. Whether you are a new or experienced user, you may always opt for the training that we are providing such as our custom-developed course:

New

- [An Analytical Journey with Microsoft Power BI](#)
- [Microsoft Power BI Data Preparation And Visualization Workshop](#)

Experience

- [Conquering DAX 2019](#)
- [Intensive Data Modeling For Microsoft Power BI Creators](#)
- [Microsoft Power BI Advanced Dashboard Design Concepts And Strategies](#)

Personalized Dashboard: One of Power BI's most useful tools, is the dashboard. Employees can get real-time reports and update them using drag-and-drop and other capabilities, and the dashboard can be tailored by each employee. One type of report will be required by the sales team, while another will be required by the accounting team. The dashboard's features can be changed (added and removed) to meet the needs of the team.

Data Processing and Reporting in a Secure Environment: Microsoft recognizes the value of data security and has offered sufficient options for setting up security levels for data analytics and report sharing. Row-Level Access filters can be put up by employees who create the reports, allowing only certain teams to access or amend a piece of the report. This achieves a healthy mix between data exchange and data security. The reports are viewable by all employees, but only those with permission can alter them.

Easy to Setup and Use: Power BI setup is as simple as it gets. To use the technology, there is no need to put the staff through significant training. Employees can use the dashboards to use the reports in their day-to-day work, and experts from Power BI consulting companies will handle the initial procedure.

Regular updates from Microsoft: Microsoft does not simply put things on the market and walk away. The company is always improving and adding new features to make Power BI even more powerful.

Multiple Data Sources: With Power BI, gathering real-time data has never been easier. Collecting raw data in real-time and applying it for analytics is a simple and quick operation, whether it comes from IoT devices, social media, media, or any other source. Changes in data will be reflected in reports and on the dashboard automatically.

Seamless Integration: With apparent ease, Power BI professionals can incorporate the tool into your company environment. Experts will guarantee that the process is streamlined and simplified, whether you employ cloud services or on-premises servers. End-users (workers from various departments) can now use Power BI to share data and reports with any team member.

Customization of Power BI App: The software may be tweaked to make navigation simple, quick, and efficient. It doesn't make sense to use such a sophisticated technology if your employee needs to spend valuable time searching for the essential data, does it? Employees can find data and reports faster and finish their tasks by customizing the navigation.

Breakdown of Information: The primary goal of Power BI is to comprehend data. How can employees understand the report if the data graphics are complex and confusing? First, raw data must be cleaned and formatted before it can be used for analytics. The reports are then dynamic and can be divided into sections.

For example, the sales staff can determine whether their approach worked or not by looking at the graph of leads vs. conversions. Well, we do have a solution for you on this, you may check out [Building A Data Literate Culture In Your Organization](#) course or want to know your staff under which Data Personas category, you may view our recording "[What are the Data Personas In Data Literacy Culture?](#)".

The True Value Of Your Data With Power BI

Azure Machine Learning Integration

Microsoft Azure is a cloud computing service that provides a wide range of goods and services for developing, deploying, and testing software. You can create superior data graphics and modify them by combining Azure Machine Learning with Power BI. All you have to do now is drag and drop the required parts and connect the data modules.

Cortana Integration

Cortana is a personal speech assistant powered by artificial intelligence that is included with Microsoft 365. It's a tool that's utilized in Teams and Windows to help employees with their daily tasks. Cortana enables staff to be more productive while also improving the project's overall quality. So, how can Cortana's connection with Power BI analytics help with Power BI analytics?

Employees can communicate with the tool and request that it evaluate reports and graphs for them. Employees converse with the app rather than creating sophisticated code or giving a series of written/clickable instructions. Cortana's NLP (Natural Language Processing) engine will recognize their requests and give the reports in the Power BI app.

Integration and Data Shaping with R

R is a computer language for statistical computing and graphics in the environment. Data analysts use it since it is free software. The R connection can be used to link R with Power BI and run it. With just a few clicks, you can utilize the Power Query editor for data cleansing, data shaping, and sophisticated analytics.

Data Visualization is one of Power BI's most impressive features. It comes with a variety of pre-built visualizations and allows you to add more custom visualizations to deliver real-time data reports in a visually appealing manner. You can exhibit the obtained insights in any format, including graphs, charts, pies, and heat maps.

Data Analysis Expression (DAX)

DAX is similar to MS Excel, but it is considerably simpler and easier to use. It's a suite of routines for calculating numerous data sets using current data. It's utilized in data sets to support many-to-many relationships. It also includes a relationship filter, which makes it simple to find data linked to your project.

Watch [Conquering DAX 2019 webinar](#).

M Functions

Power BI professionals employ M, a functional programming language, to analyze raw data. Power BI's main function is to transform data from various sources and apply M expressions. These M expressions are copied to M documents and used as queries to find the required data after the data has been cleaned and formatted.

Ask a Question

You may add a button to your reports in Power BI that allows end-users to ask questions. This allows users to perform further analytics to double-check the report or gain access to more advanced insights and comparisons. They will be able to ask a question and provide feedback to the team via Cortana integration.

Quick Insights

Power BI's Quick Insights function allows end-users (workers) to search for information in data sets and reports. The Quick Insights function may help you uncover everything you desire in a short amount of time, from trends to correlations to important impacting elements. There's no need to waste a whole day looking for information to finish your assignment.

Multiple Data Source Consolidation

As previously said, Power BI makes combining data from various sources and storing it in a central location (in-house or cloud) for advanced analyzes a simplicity. These data sets are used to create real-time interactive graphic reports.

Multiple Filters

Filters are a fantastic feature, and one of Power BI's greatest. Filters are available for query, data model, and data visualization components. Two key filters used to discover the relevant data at the Query level are M functions and Query editor. This eliminates the need to download and import data models, which saves time.

Source Query Building

You may successfully bypass the restrictions in scalability and flexibility by developing Direct Query models in Power BI. The Direct Query Mode is one of the latest SQL Server Analysis Services (SSAS) features in Microsoft Power BI's data modelling engine. It lets you see how business operations are handled in real-time by giving you direct access to data sets in real-time.

Multiple Query Integration

To analyze patterns and trends, data from several sources must be brought together in one place. You can retrieve and aggregate data files from several sources using the multiple query capability. The M programming language can be used to accomplish this.

Data Segmentation and Analytics

Clustering, grouping, and binning are Power BI features that help you segment data and find meaningful connections across distinct data sets. It aids in the development of a theory or hypothesis for analyzing evidence and drawing conclusions from it.

Conclusion

Power BI gives you a complete picture of your business KPIs. It enables you to efficiently address data difficulties in the company and to adopt a data-driven approach in order to become a market leader. To uncover the potential of Microsoft Power BI and improve your organization, get Power BI consulting services from reputable business intelligence businesses.

If you have any questions regarding the training, please don't hesitate to contact us directly at enquiry@gemrain.net