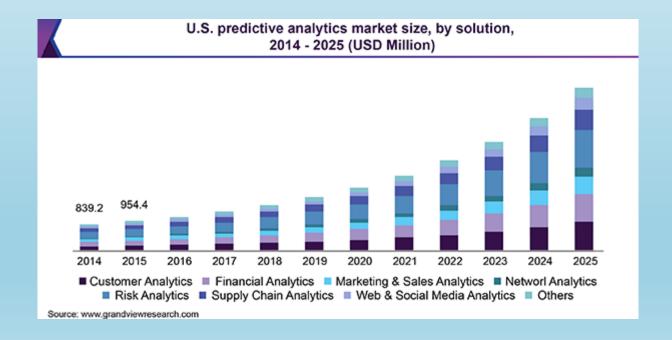
Global Sales Data Analytics

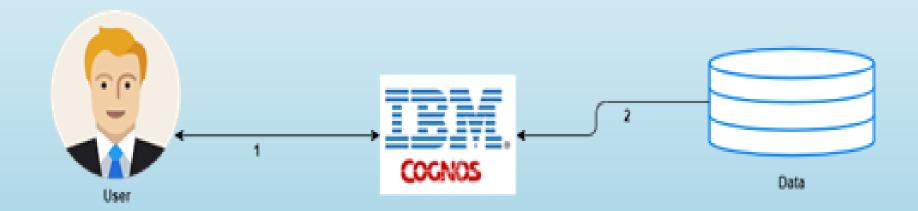


Global Sales Data Analytics

Shopping online is currently the need of the hour. Because of this COVID, it's not easy to walk in a store randomly and buy anything you want. So, try to understand a few things like, Customer Analysis and Product Analysis of this Global Super Store.



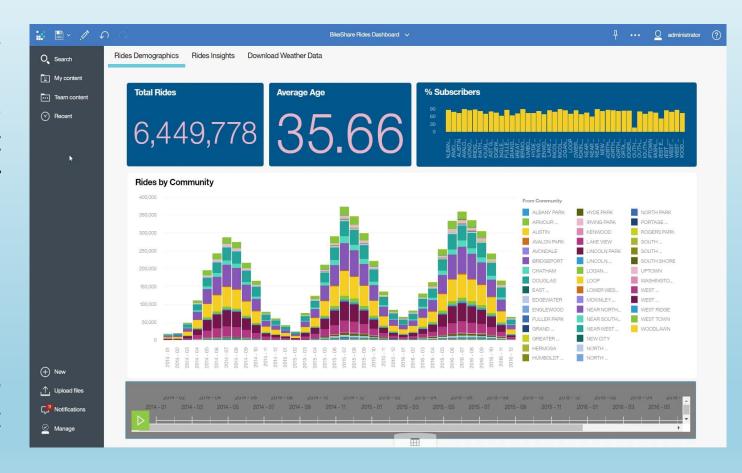
Technical Architecture



Solution Requirements

IBM Cognos Analytics

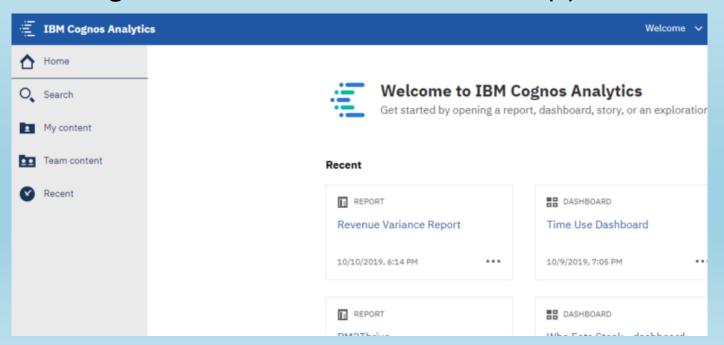
IBM Cognos Business Intelligence is a web-based integrated business intelligence suite by IBM. It provides a toolset reporting, analytics, scorecarding, and monitoring of events and The software metrics. consists of several components designed different the meet information requirements in a company.



Project Objectives

By the end of this Project, you will:

- Know fundamental concepts and can work on IBM Cognos Analytics.
- Gain a broad understanding of plotting different visualizations to provide a suitable solution.
- Able to create meaningful Visualizations and Dashboard(s).



Project Flow

- Users create multiple analytical graphs/charts/Visualizations.
- Using the Analytical Visualizations, build the required Dashboard(s).
- Saving and visualizing the final dashboard in the IBM Cognos Analytics.



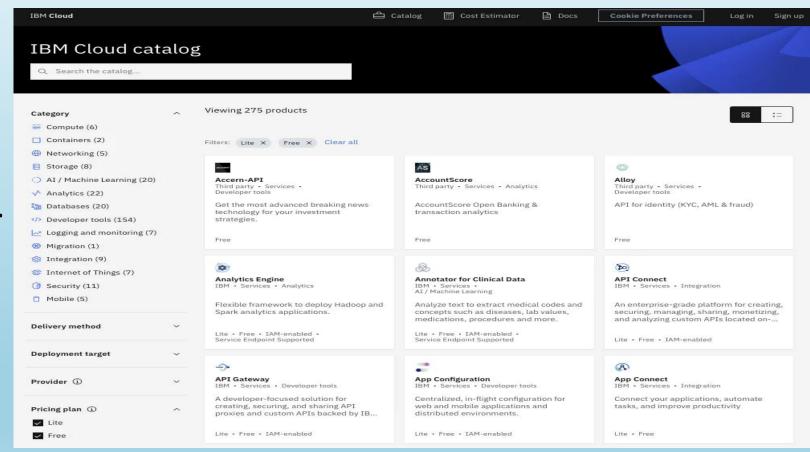
To accomplish this, we have to complete all the activities and tasks listed below:

IBM Cloud Account

Login to Cognos Analytics

Working with the Dataset

- Understanding the Dataset.
- Loading the Dataset.



Data Visualization Chart

Data visualization charts are graphical representations of data that tell a story using symbols in order to improve the understanding of large amounts of data. Visual data metaphors such as charts effectively engage human perceptual processes and amplify human cognition more so than semantic data alone.



Data Visualization Chart

Build the following visualizations

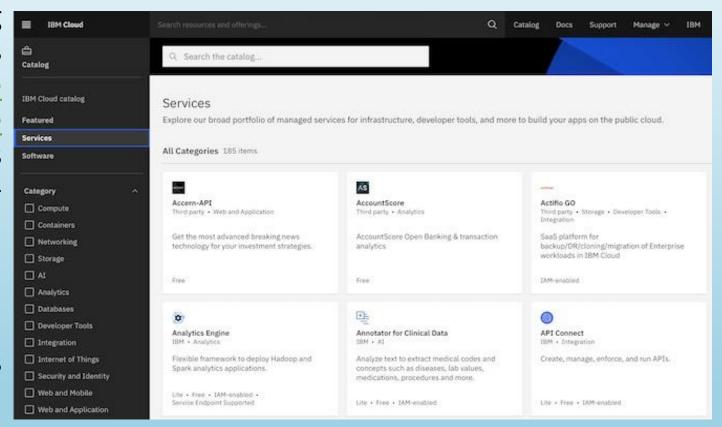
- 1. Global Stuperstore_Data Upload.
- 2. Global Superstore_DataPrep.
- 3. Date Calculations and Navigation path.
- 4. Segment wise Sales, Profit and Qty.
- 5. Use Pie to showcase Sales by Order Priority and Sales by Market.
- 6. Use a TreeMap to present Sales by Sub-Category
- 7. Using a Bar chart present Sales by Region by the Sales Order.
- 8. Present Regional Sales using Map Country points -- Showcase Top 10 countries.
- 9. Present Sales (Bar), Profit (line) by Sub-Category using Line and Column Chart.
- 10. Sales vs Profit Scatter Plot with Sub-Category points and Region in Colour.

Data Visualization Chart(cont)

- 11. Sales and Profit Forecast by Month Country as Region and Region as Filter.
- 12. Sales vs Profit forecast by Month by Order Priority.
- 13. Show the Min, Max, and Avg Sales by Sub-Category using the Box plot.
- 14. By setting a 10% extra Target for Sales Present Segment-wise Sales use Bullet Chart.
- 15. Present Sales using Hierarchy Bubbles by Market / Region.
- 16. Using a Legacy Map Present Sales vs Profit by Country / Region.
- 17. Showcase Quantity Sold by Radar Chart across various Regions.
- 18. Present Monthly Sales by Sub-Category using Waterfall chart.
- 19. Present Sales Vs Profit of Countries by Word Cloud.
- 20. Sales dashboard with Summary Cards.

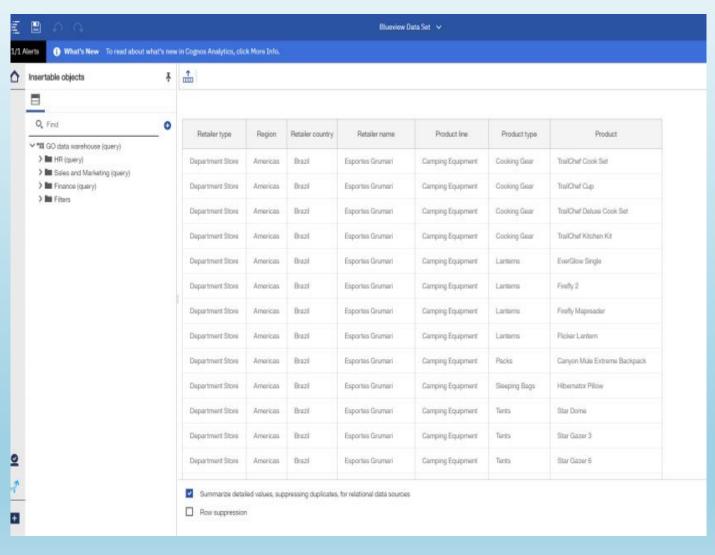
IBM Cloud Account

IBM Cloud is a suite of cloud computing from offers services **IBM** that platform both and infrastructure IBM Cloud platform access to other IBM tools and services -including IBM Watson (Watson is an IBM) supercomputer that combines artificial intelligence (AI) sophisticated and analytical software) and Functions for serverless computing -- as well as those from third-party vendors.



Working With The Dataset

When you want to provide a suitable solution to the given problem statement, you need to understand the dataset, load it to the cloud environment, and prepare it as per the technology requirement such as creating calculations, navigation paths, etc.



Sales Dashboard

The following Sales Dashboard represents various analytical visualizations for overall compartive study of Sales Business of the organization.

