

**IBM x SmartInternz
Virtual Faculty Buildathon 2023**

**Project Report
on
Unveiling the Virtual Classroom:
An In-Depth Analysis of the Online Education System**

Submitted by:

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Project Flow :

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

- Define Problem / Problem Understanding
 - Specify the business problem
 - Business requirements
 - Literature Survey
 - Social or Business Impact.
- Data Collection
 - Collect the dataset
 - Connect data with IBM cognos
- Data Preparation
 - Prepare the Data for Visualization
- Data Visualizations
 - No of Unique Visualizations
- Dashboard
 - Responsive and Design of Dashboard
- Story
 - No of Scenes of Story
- Report
 - Creating a report
- Performance Testing
 - Amount of Data Rendered to DB
 - Utilization of Data Filters
 - No of Calculation Fields
 - No of Visualizations/ Graphs
- Web Integration
 - Dashboard and Story embed with UI With Flask
- Project Demonstration & Documentation
 - Record explanation Video for project end to end solution
 - Project Documentation-Step by step project development procedure

Unveiling the Virtual Classroom: An In-Depth Analysis of the Online Education System

Project Description

Category: Data Analytics

Skills Required:

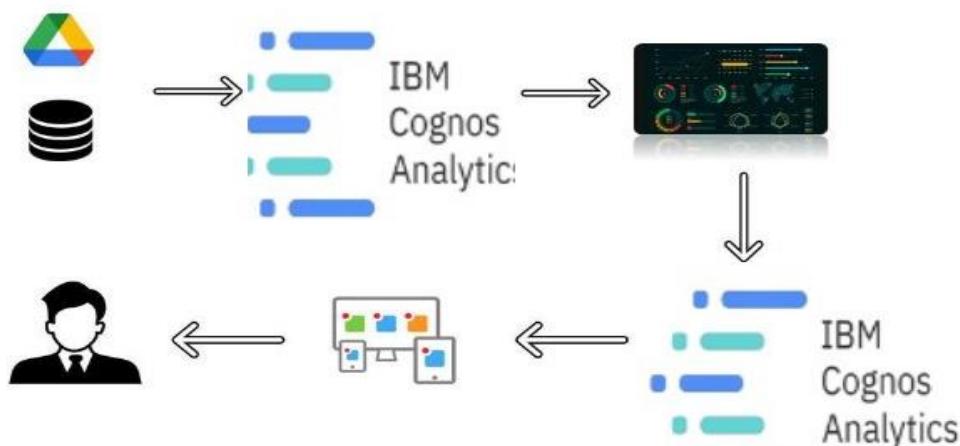
Python, Python For Data Analysis, Python For Data Visualization, Exploratory Data Analysis, IBM Cognos Analytics

Project Description:

Online classes and technology have emerged as a superhero during the lockdown days. We have all been under house arrest but are still connected with the world of education. Due to the lockdown, students have not been able to stay connected with the outer world and the lack of exposure is evident. The only reprieve for the students' mental well-being has been the transition to online classes. Teachers made sure that the learning for students was not compromised, so they took a great leap forward to find solutions and create new learning environments for their students to ensure that learning never stops. With the rapid advancements in technology and the widespread availability of internet access, online education has gained significant popularity in recent years.

This project aims to delve deep into the various aspects of online education, examining its strengths, weaknesses, opportunities, and challenges. The outcomes of this project will provide valuable insights for educational institutions, policymakers, and online learning platforms to enhance the effectiveness and accessibility of online education. This analysis of the online education system aims to contribute to the ongoing dialogue on the future of education and help shape a more inclusive, engaging, and effective learning environment in the digital age.

Technical Architecture:



Define Problem / Problem Understanding

A problem statement is a short, clear explanation of an issue or challenge that sums up what you want to change.

Specify the Business Problem

The analysis of the online education system aims to contribute to the ongoing dialogue on the future of education and help shape a more inclusive, engaging, and effective learning environment in the digital age.

Business Requirements

Taking student and teacher surveys, understanding student needs, and having an efficient feedback system. Specific requirements may vary depending on the student demographic, their needs and their interests

Literature Survey

The survey would involve identifying relevant sources, organizing and summarizing the literature, identifying gaps in the literature, and providing recommendations for e-learning/online education based on the findings.

A literature survey for online education would involve reviewing existing research on topics related to ed tech and student behavior . The survey would involve defining a research question, identifying relevant sources, reading and analyzing the literature, organizing and summarizing the literature, identifying gaps in the literature, and providing recommendations for e-learning/online education based on the findings. The goal of the literature survey is to understand the current state of knowledge on a topic and to identify areas where further research is needed. It also helps to build upon the existing knowledge and avoid duplication of effort.

The paper does not explicitly mention conducting a literature survey. However, it does analyze the various aspects of online education, examining its strengths, weaknesses, opportunities, and challenges. The outcomes of this project aim to provide valuable insights for educational institutions, policymakers, and online learning platforms to enhance the effectiveness and accessibility of online education. Therefore, it is possible that the authors conducted a literature survey as part of their research process, but it is not explicitly stated in the paper.

Social or Business Impact.

It aims to contribute to the ongoing dialogue on the future of education and help shape a more inclusive, engaging, and effective learning environment in the digital age.

The paper focuses on analyzing the various aspects of online education, examining its strengths, weaknesses, opportunities, and challenges. The outcomes of this project aim to provide valuable insights for educational institutions, policymakers, and online learning platforms to enhance the effectiveness and accessibility of online education. Therefore, the paper has a social impact as it aims to contribute to the ongoing dialogue on the future of education and help shape a more inclusive, engaging, and effective learning environment in the digital age.

Social Impact:

Understanding the pros and cons of e-learning and making it better for future generations

The paper analyzes the various aspects of online education, examining its strengths, weaknesses, opportunities, and challenges. The outcomes of this project aim to provide valuable insights for educational institutions, policymakers, and online learning platforms to enhance the effectiveness and accessibility of online education. Therefore, the paper has a social impact as it aims to contribute to the ongoing dialogue on the future of education and help shape a more inclusive, engaging and effective learning environment in the digital age.

The paper does discuss the pros and cons of online education and aims to make it better for future generations by providing insights and recommendations for enhancing the effectiveness and accessibility of online education.

Business Model/Impact:

Ed-tech companies and other organizations can capitalize on this

The paper does not specifically discuss the business model or impact of ed-tech companies or other organizations in relation to online education. However, the paper does provide insights and recommendations for enhancing the effectiveness and accessibility of online education, which could potentially be useful for ed-tech companies and other organizations involved in the online education industry.

Data Collection

Data collection is the process of gathering and measuring information on variables of interest, in an established systematic fashion that enables one to answer stated research questions, test hypotheses, and evaluate outcomes and generate insights from the data.

Collect the Dataset

You can find the data in the link download and upload to data module in IBM cognos Analytics

<https://drive.google.com/file/d/1O39CDVV9CkPthvNO7z2GHbyxRPKm2Ey6/view?usp=sharing>

Activity 1.1: Understand the data

Data contains all the Meta information regarding the columns described in the CSV files. We have provided 1 CSV files:

Online Education System Review

ONLINE EDUCATION SYSTEM REVIEW.csv

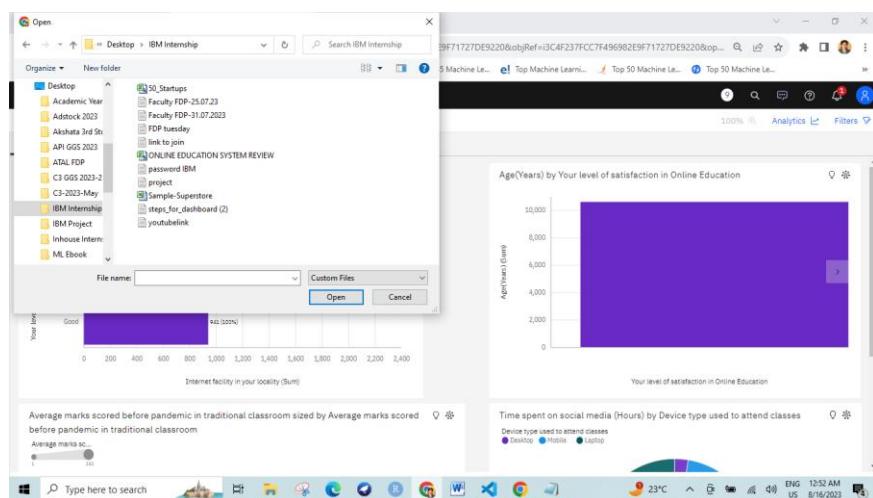
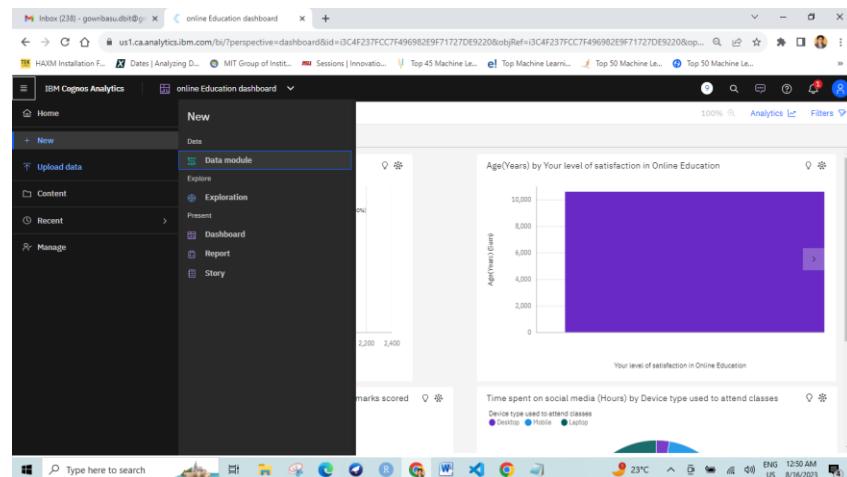
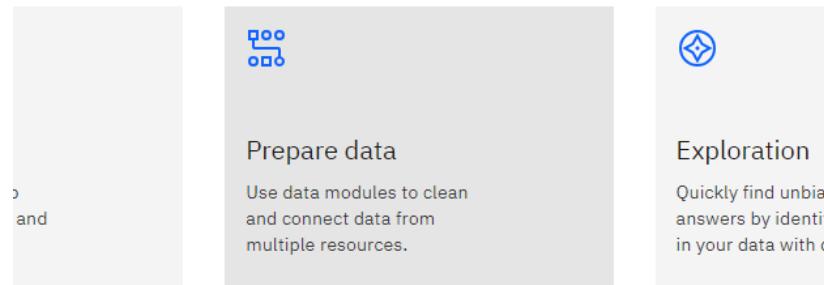
Column Description for Online education system review:

- Gender: Gender of the student
- Home Location : Rural or Urban.
- Level of Education : UG, PG or school
- Age : age of the student
- Number of subjects :
- Device Type Used : device used to attend the online classes
- Economic status : economic status of the family
- Internet facility in your locality
- Are you involved on any sports
- Family Size
- Do elderly people monitor you ?.
- Study Time(hours)
- Sleep time (hours)
- Time spent on social media(hours)
- Interested in gaming ?
- Have a separate room for studying ?
- Engaged in group studies ?
- Average marks scored before pandemic in traditional classroom
- Your interaction in online mode
- Clearing doubts with faculties online ?
- Interested in ?
- Performance in online
- Your level of satisfaction in online education

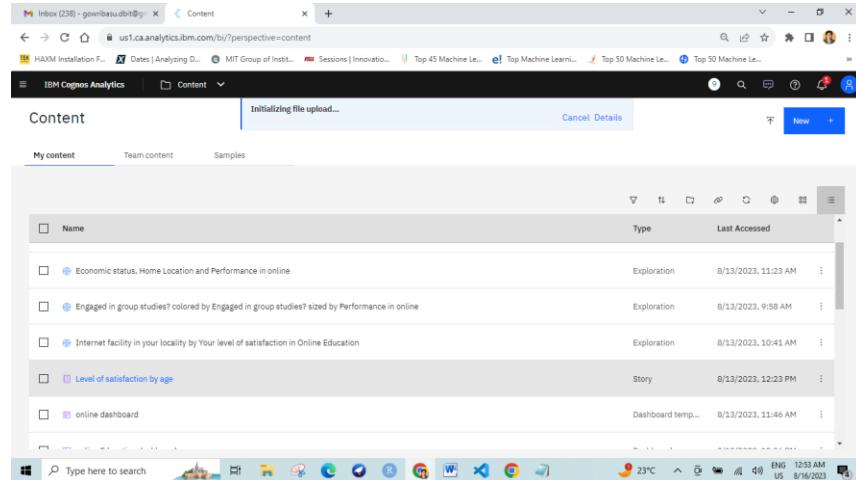
Connect the Data with IBM Cognos

Database Connection

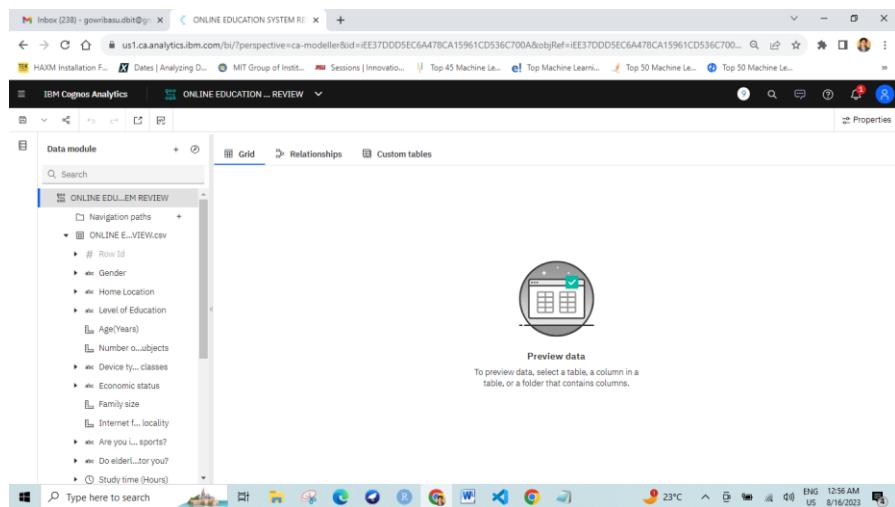
Login to IBM Cognos, Launch IBM Cognos, now go to the **prepare data** section, click on upload option and upload the csv file



The below image shows that data file is being uploaded



after the data is uploaded you will see the interface in the below image



Data Preparation

Data preparation is the process of preparing raw data so that it is suitable for further processing and analysis

Prepare the Data for Visualization

Preparing the data for visualization involves cleaning the data to remove irrelevant or missing data, transforming the data into a format that can be easily visualized, exploring the data to identify patterns and trends, filtering the data to focus on specific subsets of data, preparing the data for visualization software, and ensuring the data is accurate and complete. This process helps to make the data easily understandable and ready for creating visualizations to gain insights into the performance and efficiency.

Data preprocessing can be performed in many ways using many different steps depending on your data here, we are going to do some part of data preparation on our data.

Once you upload the data into the data module, you will encounter the interface shown in the below image

The screenshot shows the IBM Cognos Analytics with Watson interface. The top navigation bar includes 'IBM Cognos Analytics with Watson', the project name 'online_education', and various search and settings icons. The main area is titled 'Data module' and displays a tree view of data fields under 'online_education'. Fields include Row Id, Gender, Home Location, Level of Education, Age(Years), Number of subjects, Device type, classes, Economic status, Family size, Internet location, Are you into sports?, and Do elder... for you?. On the right side, there is a 'Preview data' section with an icon of a grid and a checkmark, and a note: 'To preview data, select a table, a column in a table, or a folder that contains columns.' Below this is a message: 'Activate Windows Go to Settings to activate Windows.'

Remember to save this data in 'My content' section

This screenshot is similar to the previous one but highlights the 'Save' button in the top-left corner of the interface with a red box. The rest of the interface, including the Data module view and the preview data section, remains the same.

This screenshot shows the 'Save as' dialog box in the IBM Cognos Analytics interface. The 'Name' field is filled with 'ONLINE EDUCATION SYSTEM REVIEW'. The 'Selected destination' dropdown is set to 'My content'. In the background, the Data module view for 'online_education' is visible, showing the same tree structure of data fields. A list of previously saved items is displayed at the bottom of the dialog box, including 'Average marks scored before pandemic in traditional classroom', 'Column Chart level vs age', 'Economic status, Home Location and Performance in online', and 'Engaged in group studies? colored by Engaged in group studies? size...'. The system status bar at the bottom shows '12:58 AM 8/16/2023' and other system information.

To preview the data, double click on any of the data fields

The screenshot shows the IBM Cognos Analytics Data module interface. On the left, there's a navigation pane with a tree view of data sources and tables. The 'Grid' tab is selected, showing a preview of data with columns: Row Id, Gender, Home Location, Level of Education, Age(Years), Number of Subjects, and Device type...n. The preview area has a circular icon with a grid and a note: 'To preview data, select a table, a column in a table, or a folder that contains columns.' The system status bar at the bottom indicates it's 23°C, ENG 12:59 AM, US 8/16/2023.

This screenshot is similar to the one above, but the 'Level of Education' column is highlighted with a blue border. The rest of the grid and interface elements are identical to the first screenshot.

If you want to rename any field, click on the 'three dots' at the right side of the field

The screenshot shows the IBM Cognos Analytics with Watson interface. In the center, there's a tree view under a 'Data module' header. The tree includes nodes like 'Education data', 'Navigation paths', and several CSV files. One node, 'abc Device ty... classes', is selected and has a context menu open over it. The menu items include 'Filter...', 'Create data group...', 'Create navigation path...', 'Search for members...', 'Refresh members', 'Split...', 'Hide from users', 'Remove', 'Refresh properties...', 'Format data...', 'Clean...', 'Rename' (which is highlighted with a red box), 'Cut', 'Copy', and 'Properties'. The 'abc Device ty... classes' node is also highlighted with a red box.

This screenshot shows the same interface after the 'abc Device ty... classes' field has been renamed. The node now appears as 'abc Device ty... classes (Renamed)' in the tree view. The context menu is still open over this renamed node, with the 'Rename' option still highlighted.

If you want to change the 'aggregation' of any of the fields , click on the field for which you want to change the aggregation and then go to the properties option at the top right side of the screen

The screenshot shows the IBM Cognos Analytics with Watson interface. In the center, there is a grid view of data with columns labeled 'No', 'Yes', '3', '6', '5', '7', '6', '6', '7', '6', '6', '7'. Above the grid, a search bar says 'Search' and a dropdown menu says 'Relationships'. To the right of the grid is a 'Properties' panel with tabs for 'General' and 'Navigation paths'. The 'General' tab is selected. Under 'Label', it says 'Study time (Hours)'. Under 'Usage', it says 'Identifier'. Under 'Aggregate', it says 'Count Distinct'. Under 'Data type', it says 'Integer'. Under 'Represents', it says 'Time'. At the bottom of the properties panel, there are buttons for 'Activate Windows' and 'Go to Settings to activate Windows'.

Then select the type of aggregation you want to apply on that field

This screenshot shows the 'Properties' panel for a field named 'Sleep'. The 'General' tab is selected. In the 'Aggregate' section, a dropdown menu is open, showing options: 'None', 'Average', 'Count', 'Count Distinct', 'Maximum', 'Minimum', and 'Total'. The option 'Count Distinct' is highlighted with a red box and a red arrow pointing to it from the text above.

Note:- Data Preparation is not limited to this only it depends on your data, we have performed some basic operations on the data.

Data Visualization

Data visualization is the process of creating graphical representations of data in order to help people understand and explore the information. The goal of data visualization is to make complex data sets more accessible, intuitive, and easier to interpret. By using visual elements such as charts, graphs, and maps, data visualizations can help people quickly identify patterns, trends, and outliers in the data.

No Of Unique Visualizations

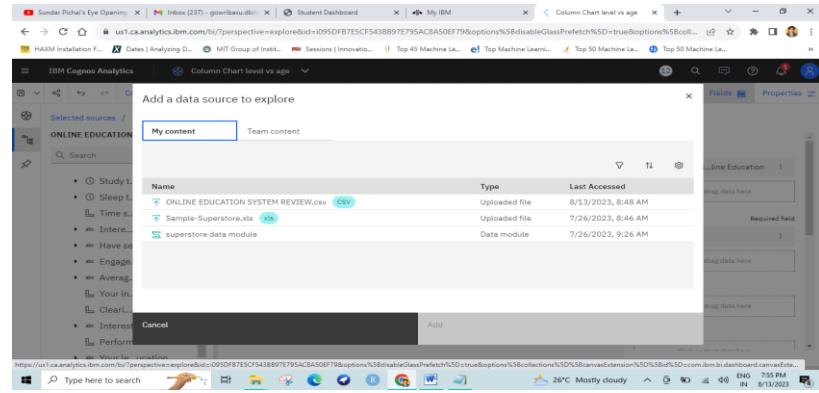
The number of unique visualizations that can be created with a given dataset. Some common types of visualizations that can be used to analyze the online education data include bar charts, line charts, heat maps, scatter plots, pie charts, Maps etc. These visualizations can be used to compare performance, track changes over time, show distribution, and relationships between variables, breakdown of revenue and customer demographics, workload, resource allocation and location of hotels.

Activity 1.1: Column Chart:

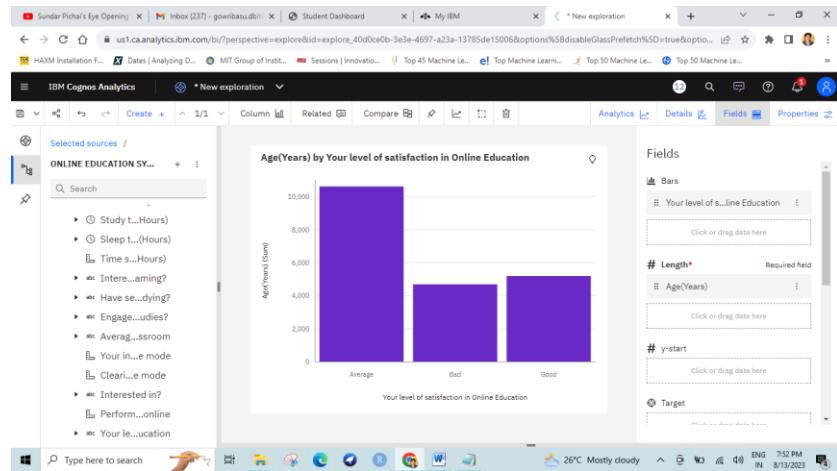
A Column chart can compare the data across different categories. The height of the bars represents the measured value of each category. It can be represented as vertical and horizontal type bar charts. The procedure to create a bar chart is given as follows.

Note: Before creating our first visualization, click on explorations and select the data from ‘ My Content’ and then select ‘Add’ you will be redirected to the exploration interface, then click on create and select ‘single visualization’ and then choose the visualization type





- Drag 'Your level of satisfaction with online education' into Bars
- Drag 'Age' into Rows.
- It creates a Bar chart by default.

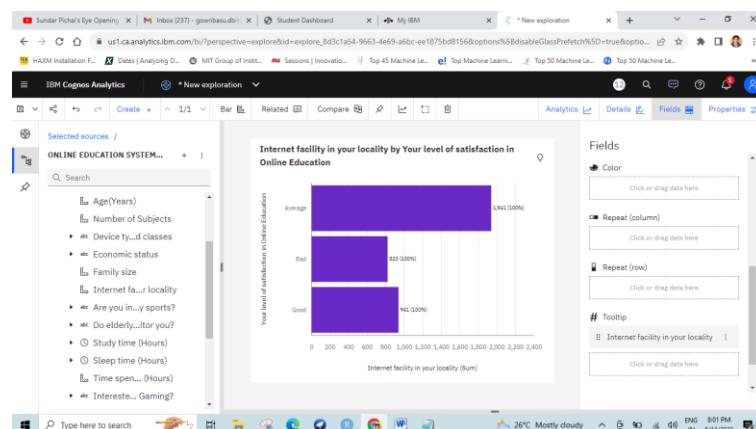


Activity 1.2: Bar Chart:

A bar chart can compare data across different categories. The height of the bars represents the measured value of each category. It can be represented as vertical and horizontal type bar charts. The procedure to create a bar chart is given as follows.

Step 1) Go to a new exploration page by clicking on 'create +' option.

- Drag 'Your level of satisfaction in online education' into Bars.
- Drag 'internet facility in your locality' in length
- It creates a bar chart by default

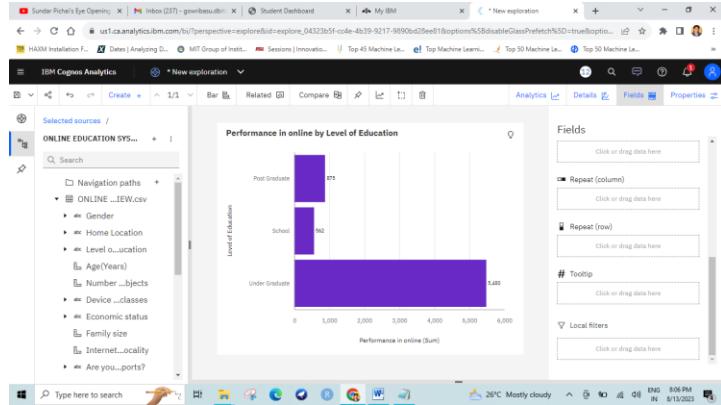


Activity 1.3: Bar chart:

A bar chart can compare data across different categories. The height of the bars represents the measured value of each category. It can be represented as vertical and horizontal type bar charts. The procedure to create a bar chart is given as follows.

Step 1) Go to a new exploration page by clicking on 'create +' option.

- Drag 'Level of Education' into Bars
- Drag 'Performance in online' in length
- It creates a Bar chart by default.

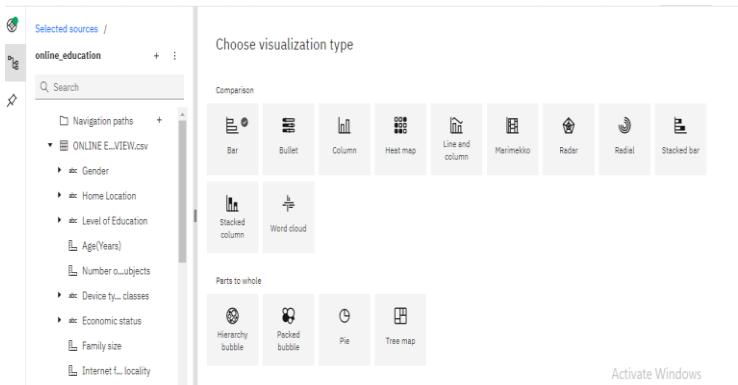


Activity 1.4: Pie Chart:

A pie chart can show the segment-wise data. It can show the contribution of measure over different members in a dimension. The angle of the pie determines the measured value. Different colors can be assigned to pie to represent the members in a dimension.

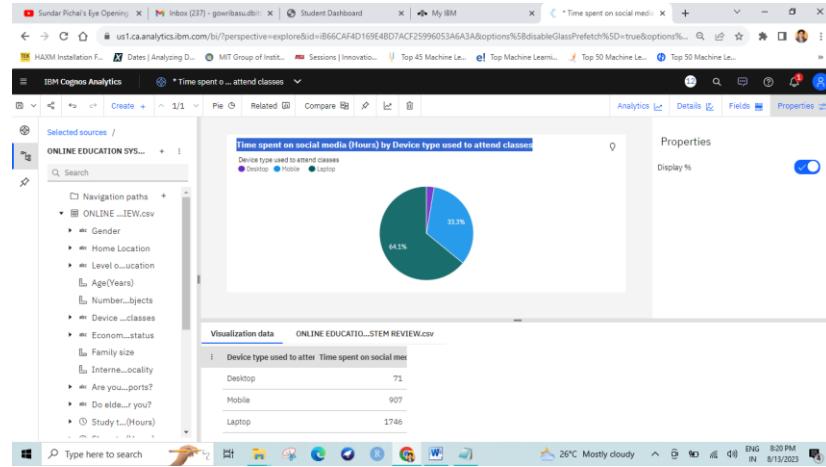
Step 1) Go to a new exploration page by clicking on 'create +' option.

- Select pie chart after clicking on 'create +' option



Step 2) Drag Device type used to attend online classes' in segment field and drag 'Time spent on social media (hours)' in size field

- You will get the pie chart by default

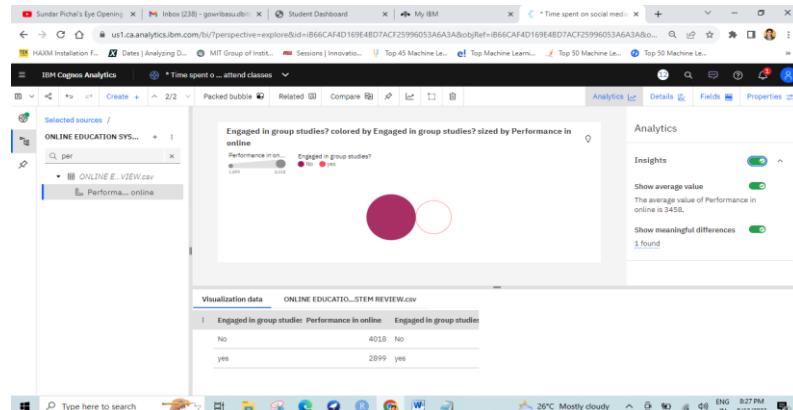


Activity 1.5: Packed Bubble:

The packed bubble charts are used to display data in a cluster of circles. Dimensions define the individual bubbles, and measures define the size and color of the individual circles.

Step 1) Go to a new exploration page by clicking on 'create +' option. and from that select the 'packed bubbles' chart

- Drag 'Engaged in group studies' into Bubbles and color.
- Drag 'Performance in online' into Size.



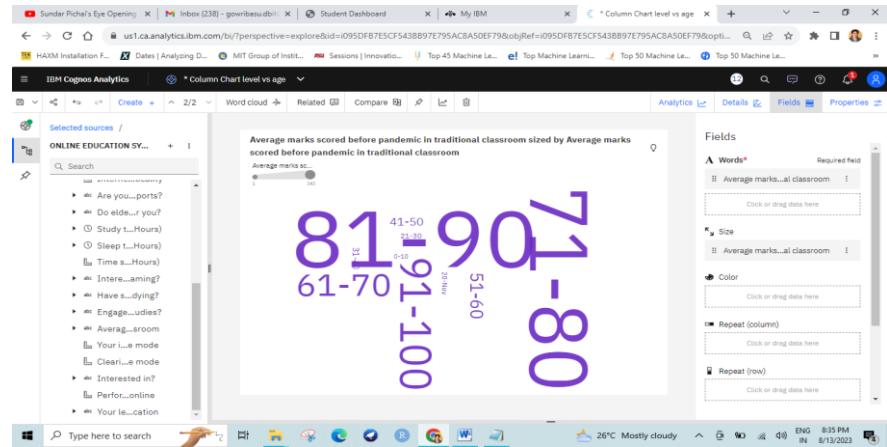
This creates a Packed bubble chart by default.

Activity 1.6: Word Cloud:

A word clouds or tag clouds are graphical representations of word frequency that give greater prominence to words that appear more frequently in a source text

Step 1) Go to a new exploration page by clicking on 'create +' option. and from that select the 'word count' chart

Drag 'Average marks scored before pandemic in traditional classroom' in both words field & size field



Activity 1.7:Table

A Table visualizes the measure & dimensions (data fields) in the form of rows and columns. It is better to use tables when the categories in the data field are limited

Step 1) Go to a new exploration page by clicking on 'create +' option. and from that select the "Table"

- Drag 'Economic status' , 'Home Location' & ' Performance in online' in columns
- after that click the 'three dots' in the 'performance in online ' field and click on 'summarize' option and then select 'average'

Fields

Columns* Required field

- Economic status
- Home Location
- Performance in online

Average Sort
Sum Filter
Minimum Top or bottom
Maximum Auto-group
Count Format data
Summary Summarize
Create calculation

Economic status	Home Location	Performance in online
Middle Class	Rural	6.72
Poor	Urban	6.68
Summary		6.70
Poor	Urban	6.49
Middle Class	Rural	6.07
Summary		6.07
Rich	Rural	7.11
Summary		7.11
Summary		7.11

Fields

Columns* Required field

- Economic status
- Home Location
- Performance in online

Average Sort
Sum Filter
Minimum Top or bottom
Maximum Auto-group
Count Format data
Count distinct Create calculation
Auto (Sum) Remove column

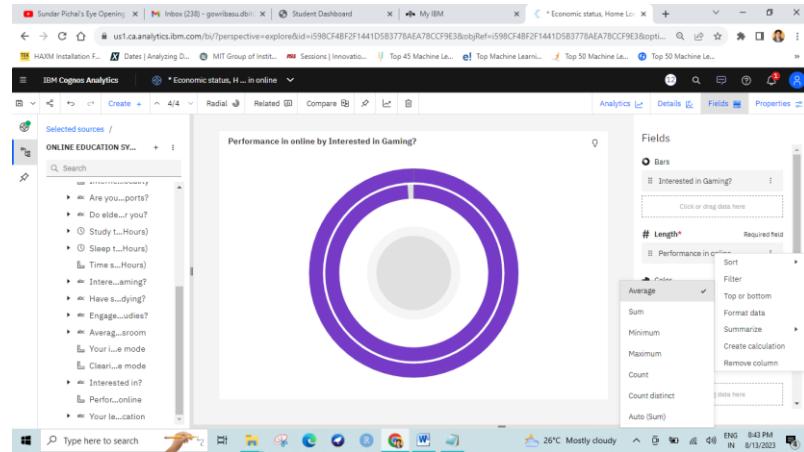
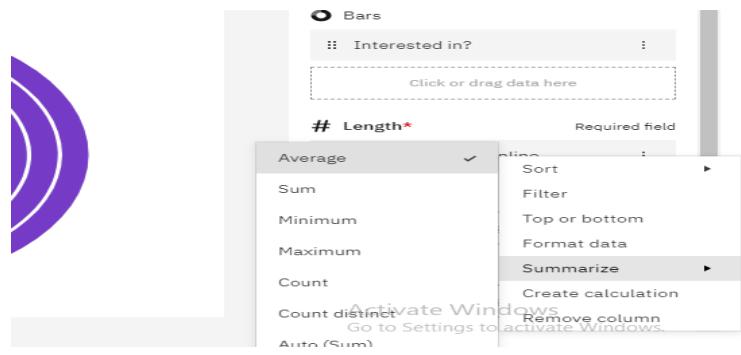
Activity 1.8: Radial Chart:

A Radial/Circular Bar Chart simply refers to a typical Bar Chart displayed on a polar coordinate system, instead of a cartesian system. It is used to show comparisons among categories by using a circular shape.

Step 1) Go to a new exploration page by clicking on ‘create +’ option. and from that select the “Radial”

The procedure to create a radial chart is shown below.

- Drag ‘interested in ?’ in bars field
- Drag ‘performance’ in online in length field
- after that click the ‘three dots’ in the length field and click on ‘summarize’ option and then select ‘average’



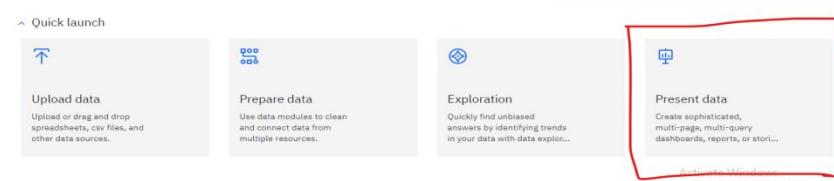
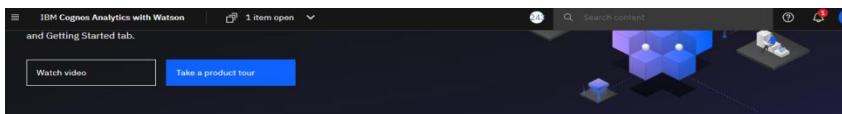
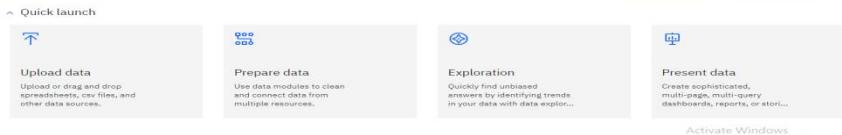
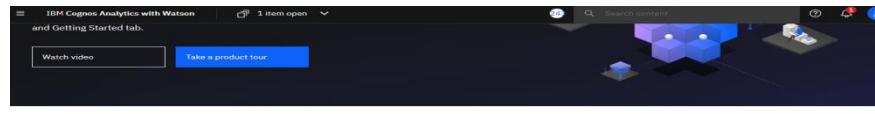
Dashboard

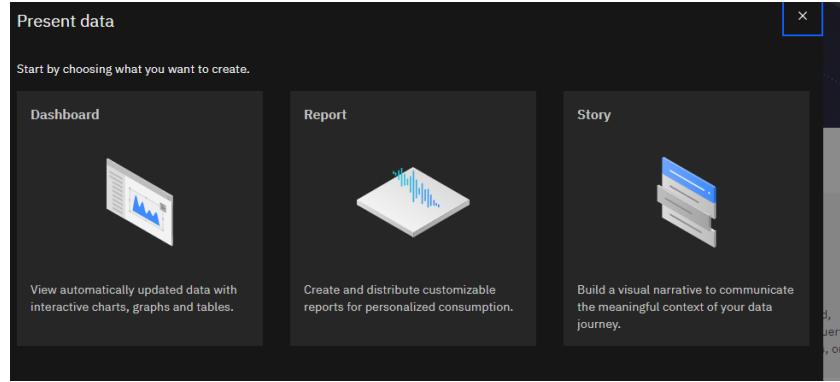
A dashboard is a graphical user interface (GUI) that displays information and data in an organized, easy-to-read format. Dashboards are often used to provide real-time monitoring and analysis of data, and are typically designed for a specific purpose or use case. Dashboards can be used in a variety of settings, such as business, finance, manufacturing, healthcare, and many other industries. They can be used to track key performance indicators (KPIs), monitor performance metrics, and display data in the form of charts, graphs, and tables.

Responsiveness and Design Of Dashboard

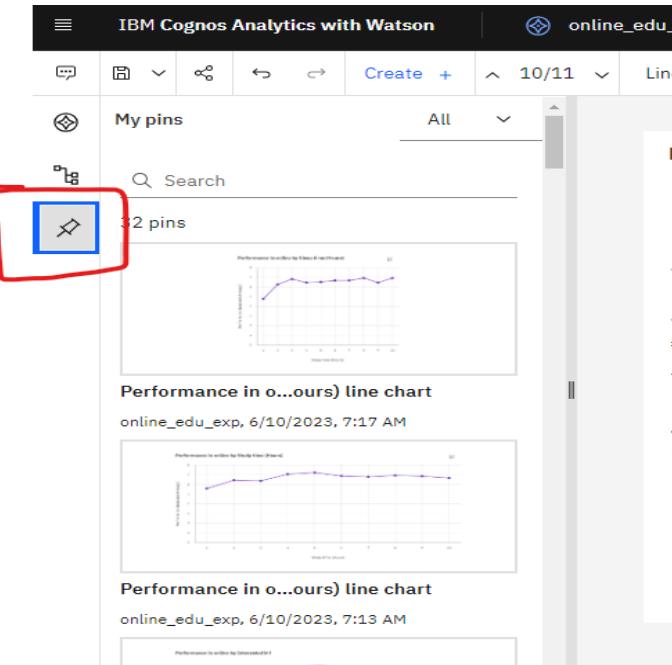
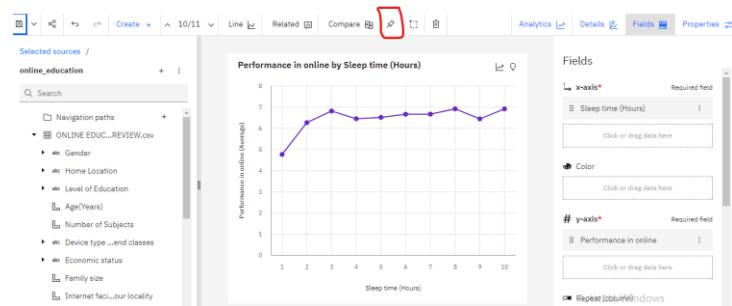
The responsiveness and design of a dashboard for online education review data is crucial to ensure that the information is easily understandable and actionable. Key considerations for designing a responsive and effective dashboard include user-centered design, clear and concise information, interactivity, data-driven approach, accessibility, customization, and security. The goal is to create a dashboard that is user-friendly, interactive, and data-driven

Create a dashboard: Once you have created the explorations, you can create a dashboard by clicking the "present data" option & selecting the dashboard. you can drag the visualizations from the 'pin' option present at the left side of the screen



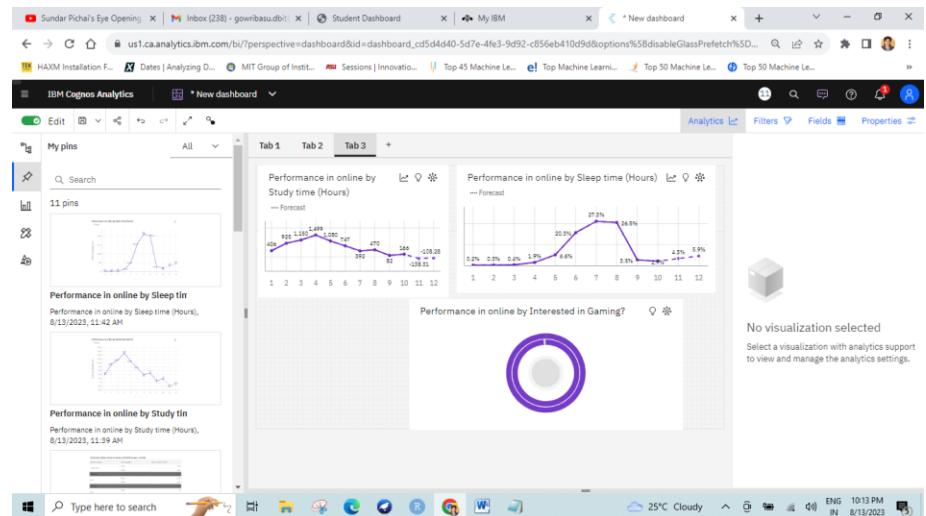
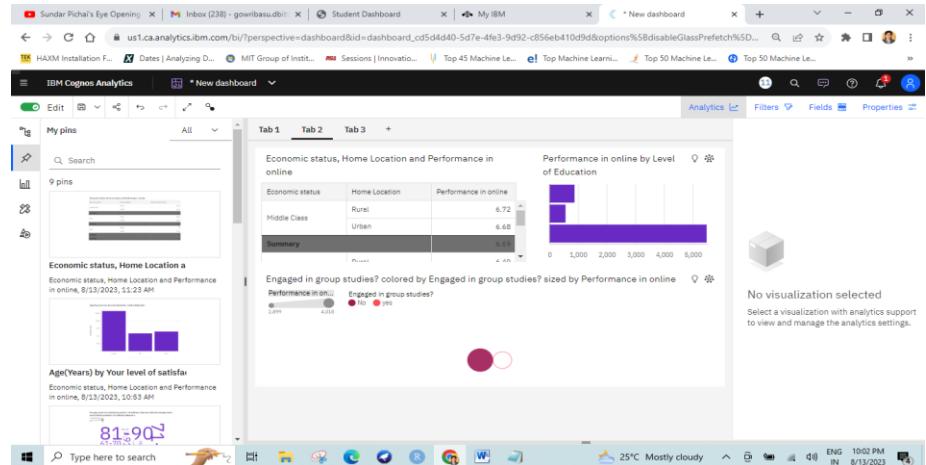
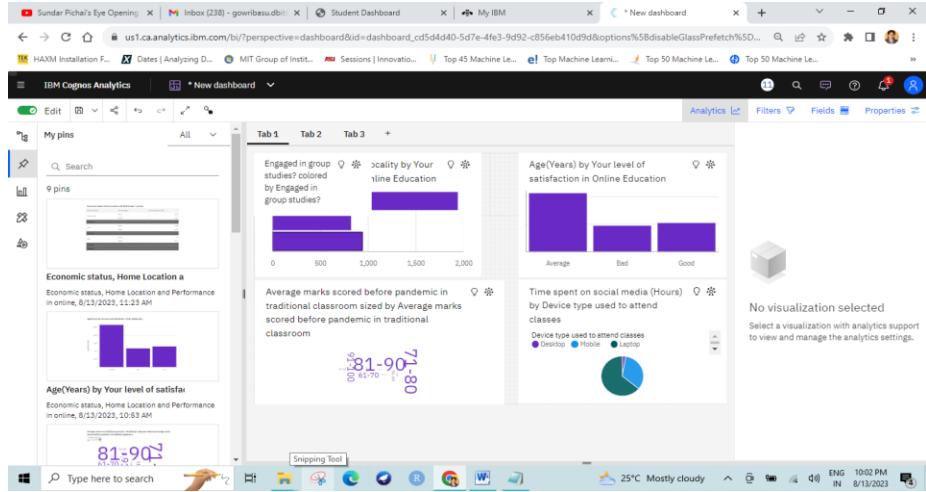


NOTE : whenever you create a visualizations in ‘explorations’ , make sure to pin them, after pinning the visualization you can drag them on to the dashboard

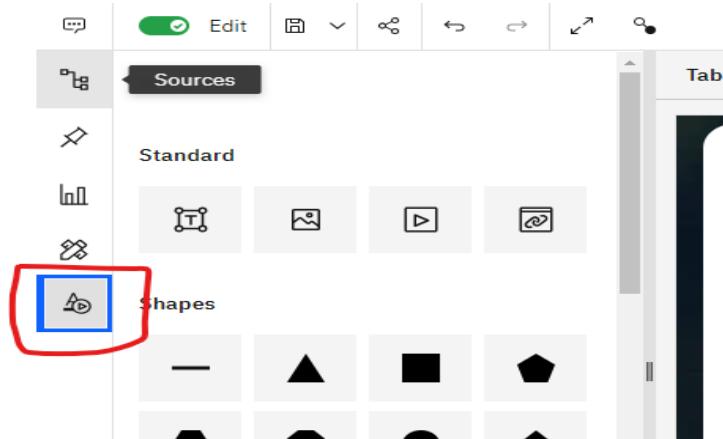


Dashboard

we have created 3 'Tabs' in dashboard



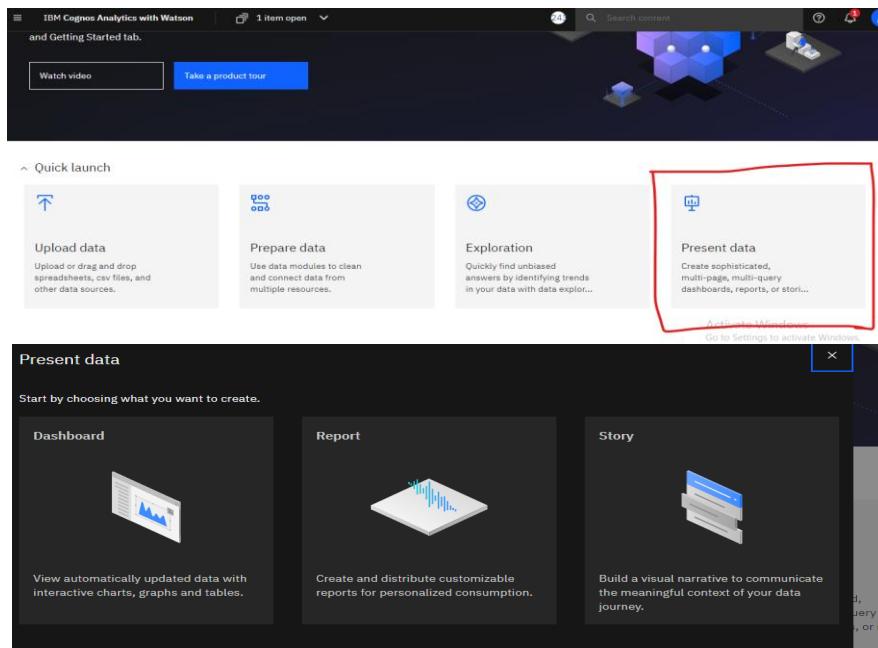
NOTE: If you want to change to add a background image to the dashboard, click on the widgets option at the left side of the screen and click on the image icon and provide the image address



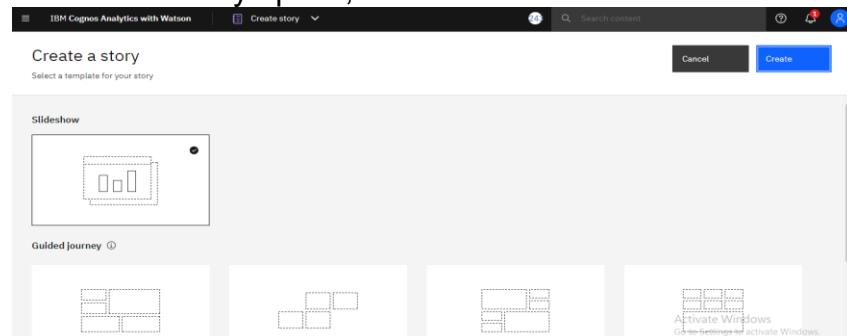
Story

A data story is a way of presenting data and analysis in a narrative format, with the goal of making the information more engaging and easier to understand. A data story typically includes a clear introduction that sets the stage and explains the context for the data, a body that presents the data and analysis in a logical and systematic way, and a conclusion that summarizes the key findings and highlights their implications. Data stories can be told using a variety of mediums, such as reports, presentations, interactive visualizations, and videos.

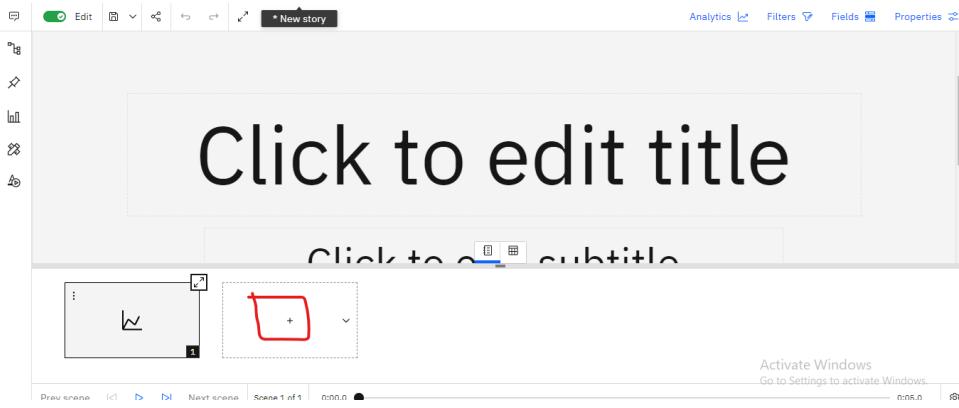
Organize your story: Once you have created the explorations/visualizations, you can create a story by clicking the "present data" option & selecting the story



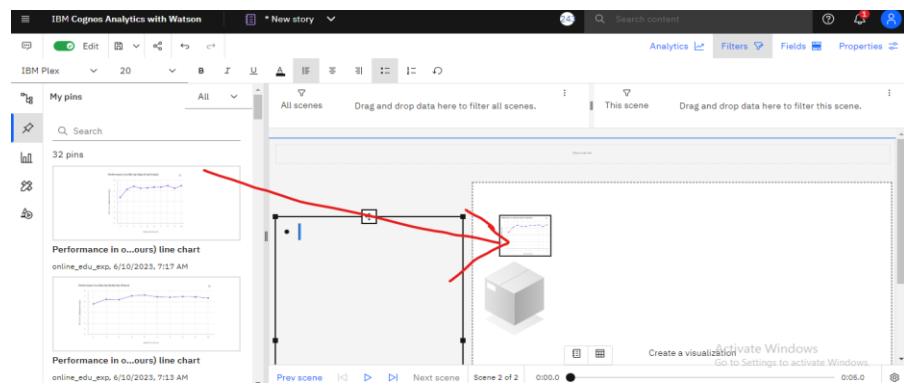
Once you have selected the story option, choose the slideshow and click on 'create'



click on the '+' symbol to add scenes in the story



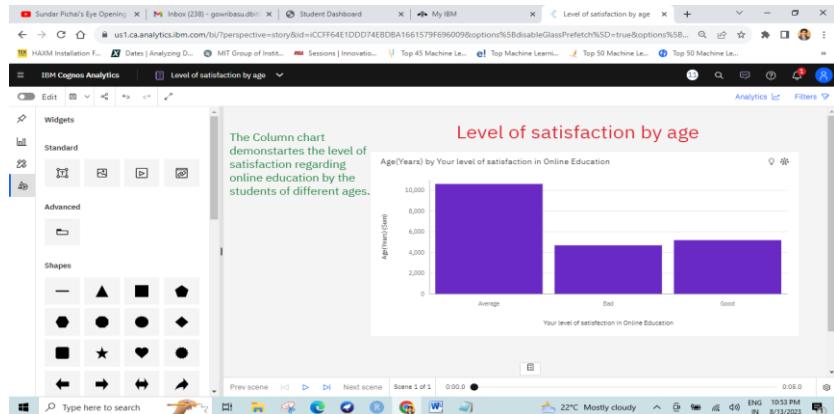
drag the pinned visualizations to the storyboard to create a scene in the story



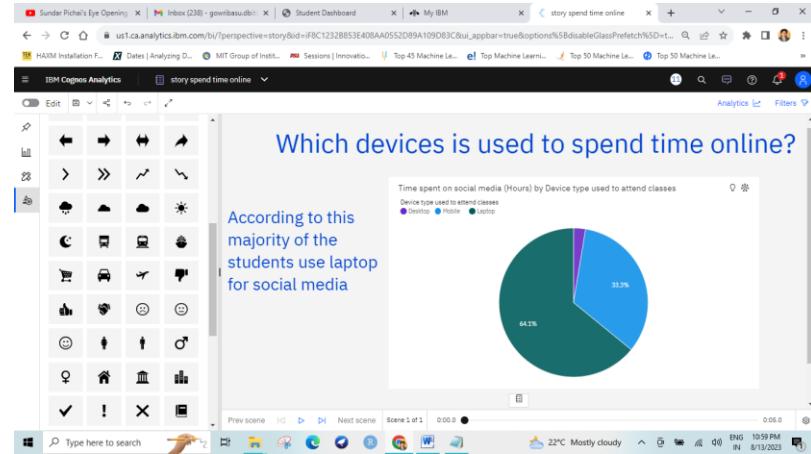
No Of Scenes Of Story

The number of scenes in a storyboard for a data visualization analysis of the performance and efficiency of online education will depend on the complexity of the analysis and the specific insights that are trying to be conveyed. A storyboard is a visual representation of the data analysis process and it breaks down the analysis into a series of steps or scenes.

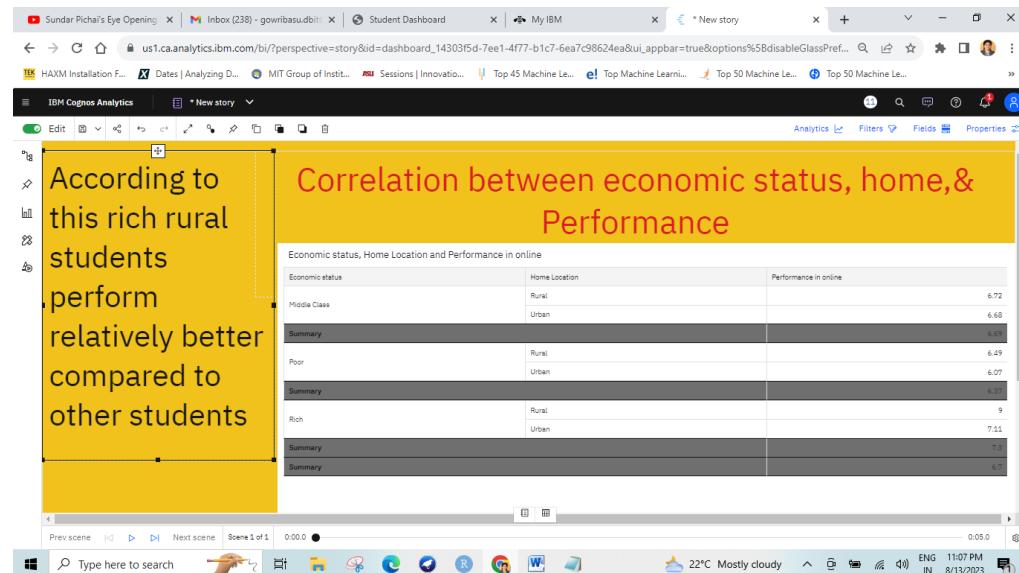
- Level of satisfaction regarding online education by age



- Time spent on social media with different devices



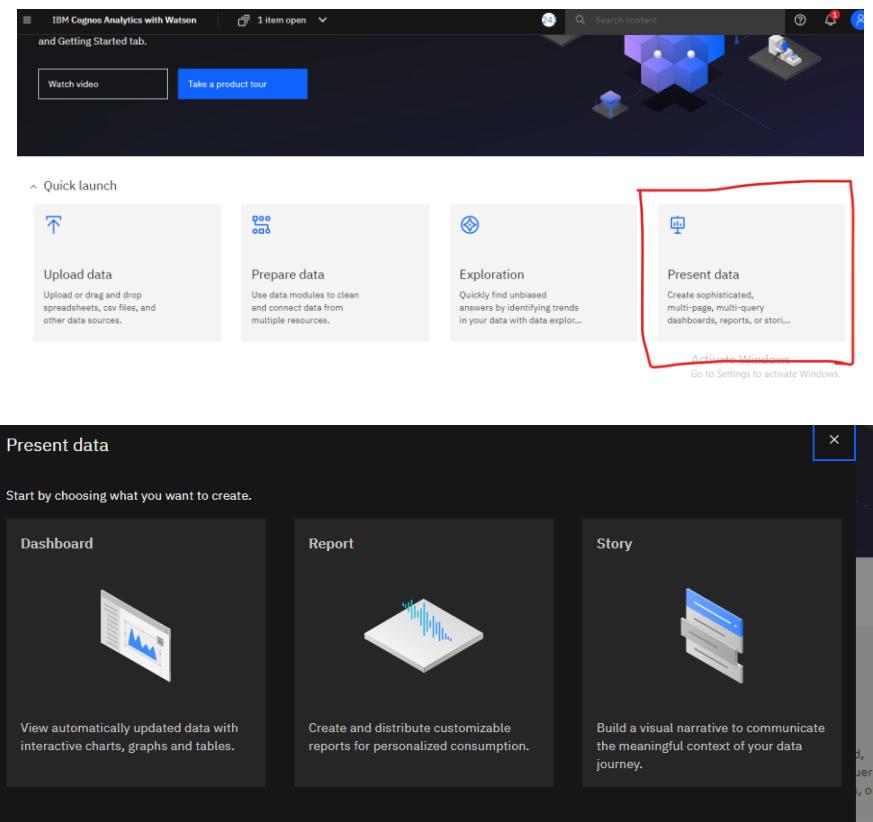
- Correlation between economic status, home & student online performance



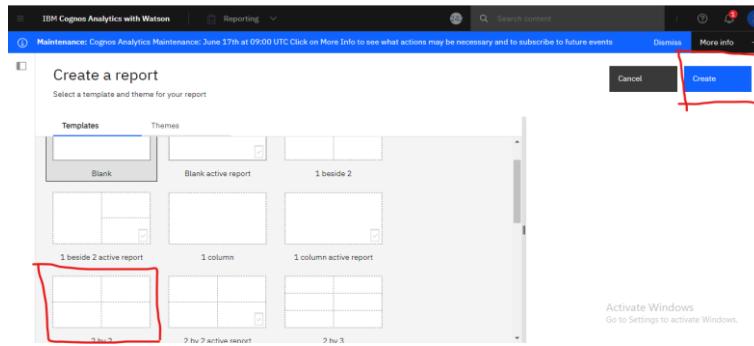
Report

A report is a document that presents information in a specific format and layout, usually based on data from a database or other data source. A report in IBM Cognos can contain various elements, such as tables, charts, graphs, and images, as well as text and data elements, and it is designed to be used by business users to help them better understand their data and make informed decisions. There are several different types of reports available in IBM Cognos, including list reports, crosstab reports, chart reports, and report studio reports, among others. The type of report that you choose will depend on the specific needs and requirements of your organization, as well as the data that you need to present.

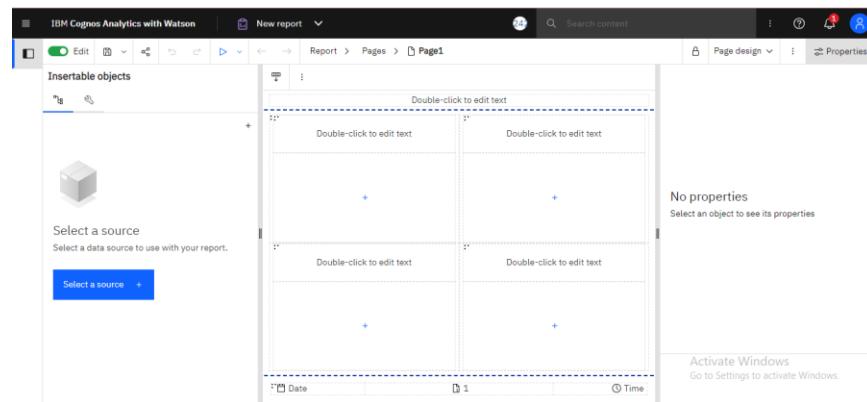
Organize your report: You can create a story by clicking the "present data" option & selecting the report from that



after selecting the 'report' , choose the 2 by 2 template and click on create



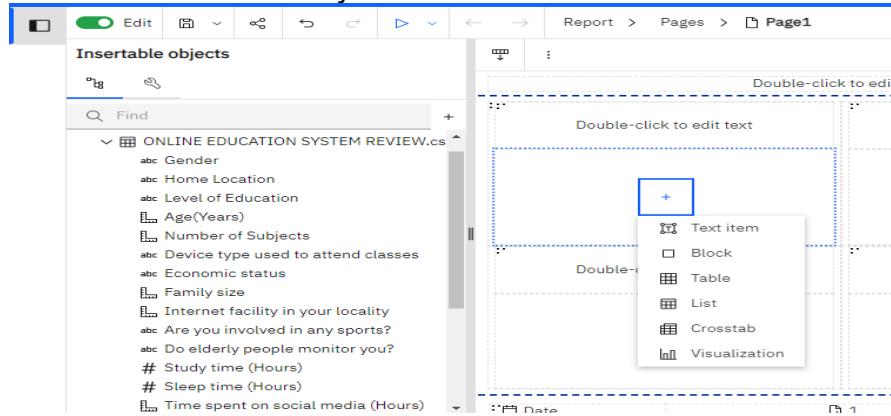
select the data source by clicking on ‘Select a source +’ option and start building the report



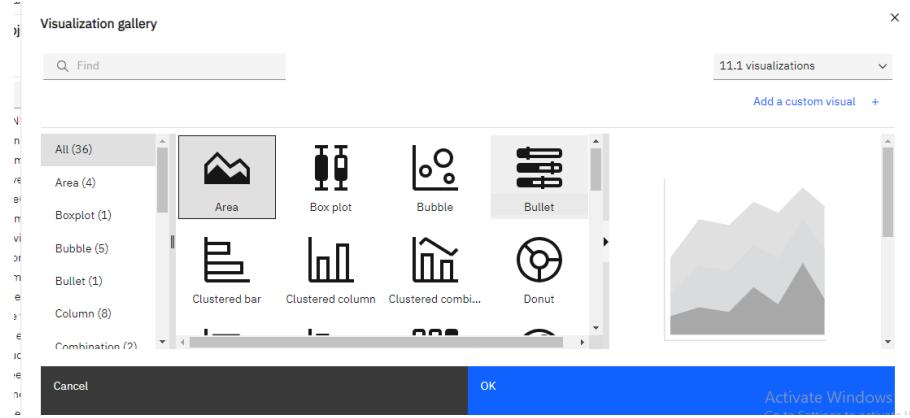
Creating A Report

We have created four visualizations in the report

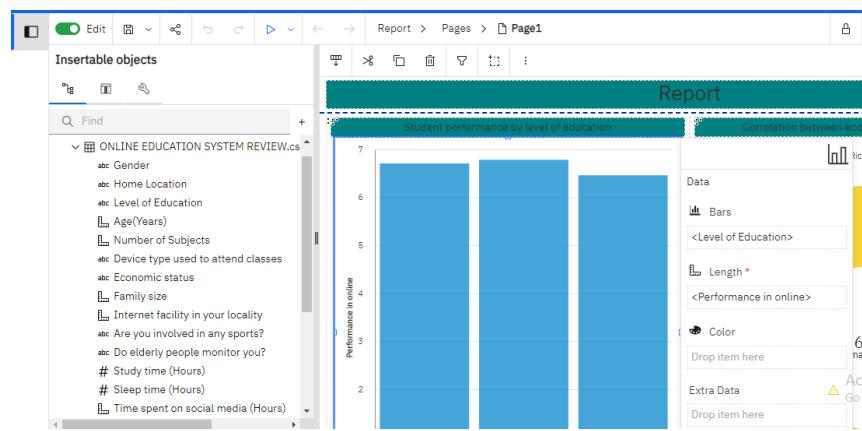
To create a bar chart click on the ‘+’ symbol in the first box and select ‘visualizations option



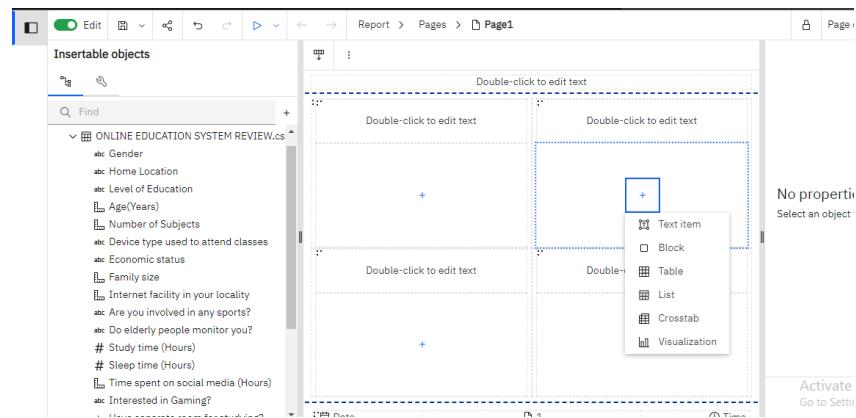
after that select the ‘clustered column’ option



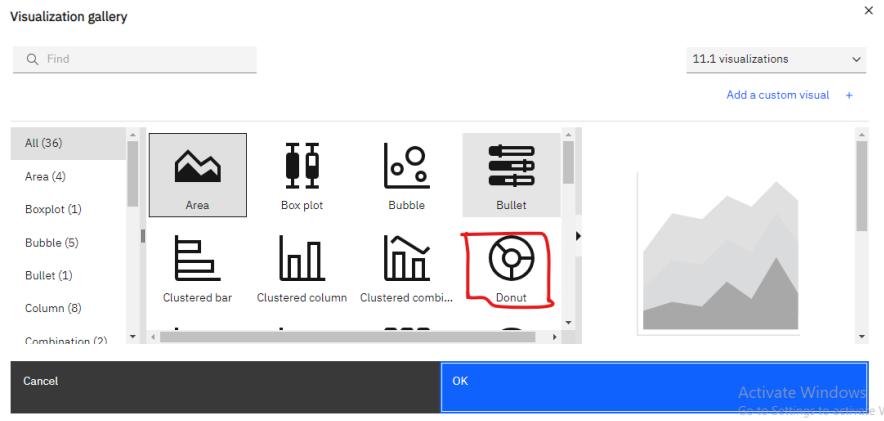
drag 'level of education' in bars and 'performance in online' in length



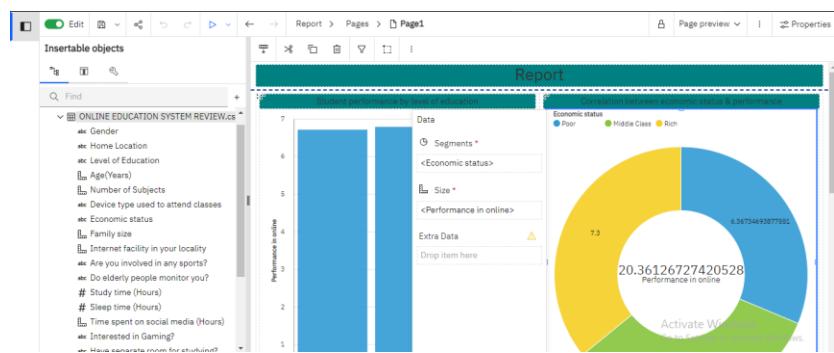
To create the second visualization (donut chart), click on '+' in the second box



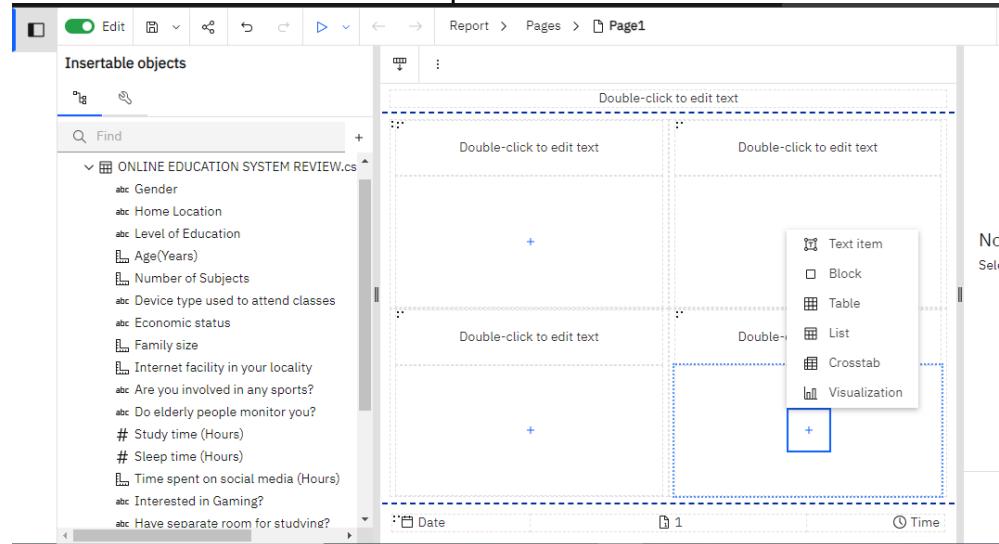
and click on 'visualization' option and from that select the donut chart



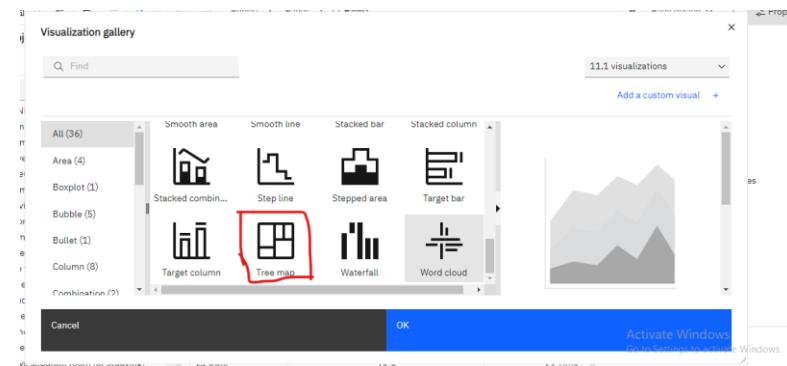
drag 'economic status' into segments and 'performance in online' in size



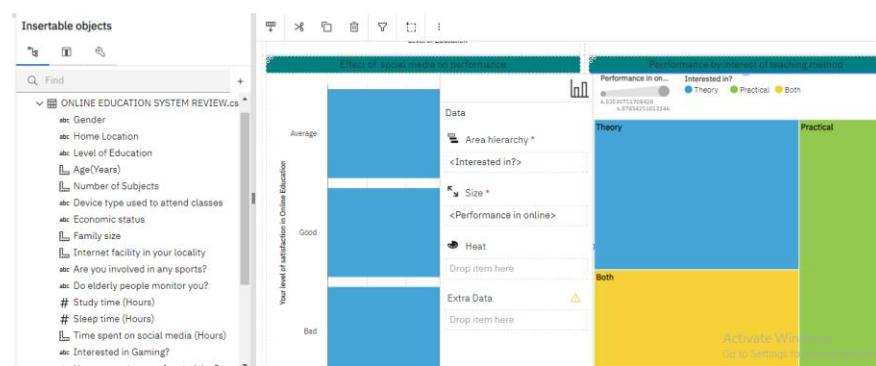
for the fourth visualization click on '+' option in the fourth box and select 'visualization'



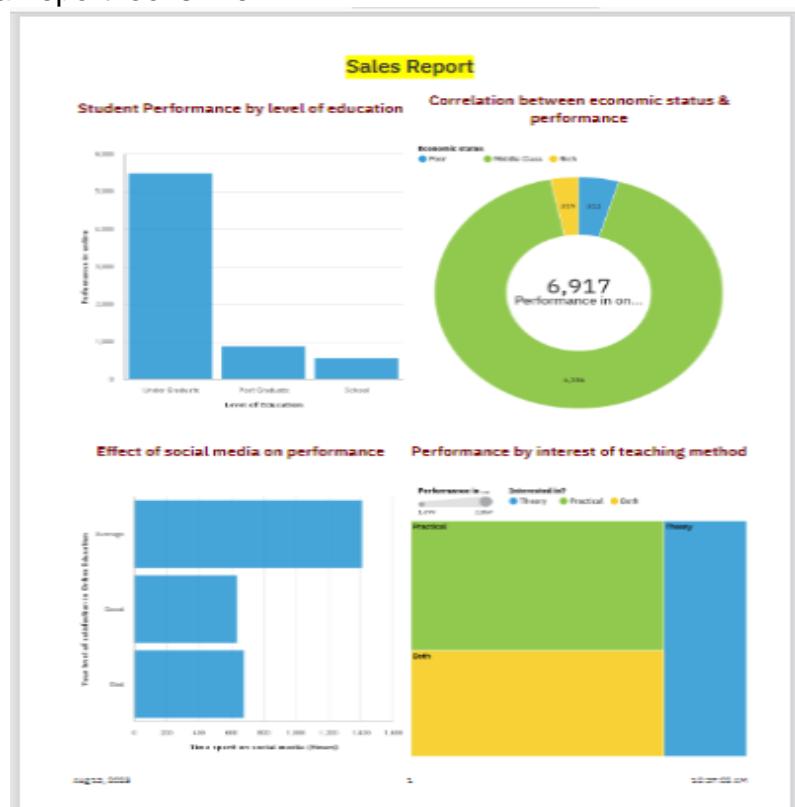
after that scroll down and select 'Tree map'



drag 'interested in?' in area hierarchy and 'performance in online' in size fields



this is how the final report looks like

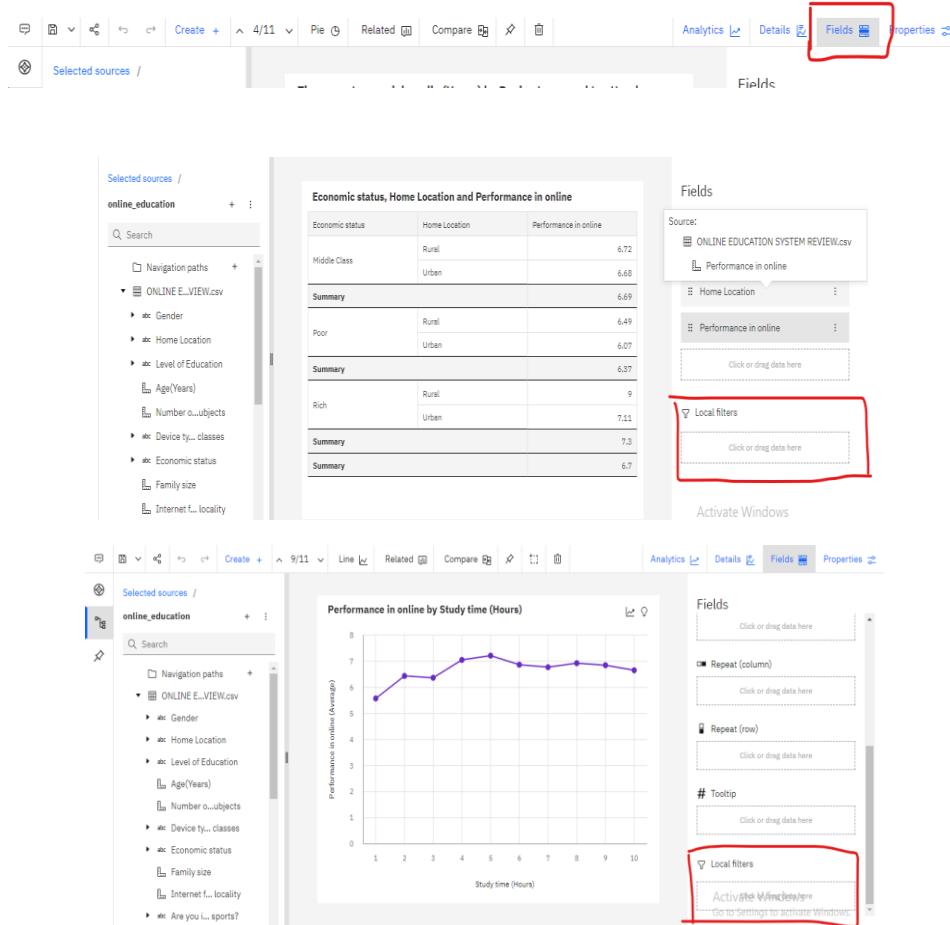


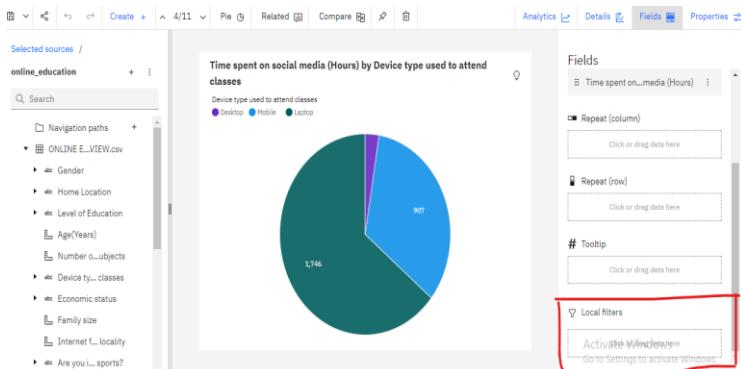
Performance Testing

Performance testing is a non-functional software testing technique that determines how the stability, speed, scalability, and responsiveness of an application hold up under a given workload.

Utilization of Data Filters

- Data filters are used to customize our visualization to achieve desired output
- We can apply filters while building visualizations . In explorations, filters are present at bottom of the 'Fields' option





No of Calculation Fields

Insertable objects

Find

- online_education
- ONLINE EDUCATION SYSTEM REVIEW.csv
 - Gender
 - Home Location
 - Level of Education
 - Age(Years)
 - Number of Subjects
 - Device type used to attend classes
 - Economic status
 - Family size
 - Internet facility in your locality
 - Are you involved in any sports?
 - Do elderly people monitor you?
 - # Study time (Hours)
 - # Sleep time (Hours)
 - Time spent on social media (Hours)
 - Interested in Gaming?

No of Visualizations/ Graphs

- Column Chart: Age(Years) by Your level of satisfaction in Online Education
- Bar Chart: Internet facility in your locality by Your level of satisfaction in Online Education
- Bar chart: Performance in online by Level of Education
- Pie Chart: Time spent on social media (Hours) by Device type used to attend classes
- Packed bubbles : Engaged in group studies? colored by Engaged in group studies? sized by Performance in online
- Wordcloud: Average marks scored before pandemic in traditional classroom

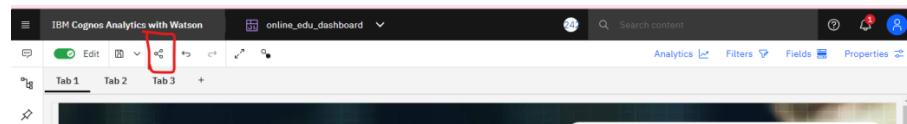
- Table: Economic status, Home Location and Performance in online
- Radial Chart:
- Line Chart: Performance in online by study time(hours)
- Line Chart: Performance in online by sleep time(hours)

Web Integration

Publishing helps us to track and monitor key performance metrics, to communicate results and progress. help a publisher stay informed, make better decisions, and communicate their performance to others.

Integrating dashboards/stories/reports to web

step 1: Go to dashboard/story/report and click on share button on the top ribbon



go to the 'link' option and copy the embed code

Share

Send **Link** Export

Link:

```
https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2Fonline_edu_dashboard&action=view&mode=dashboard&subView=model00000188a423099c_00000000
```

Embed code:

Width: 320 Height: 200

```
<iframe src="https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2Fonline_edu_dashboard&closeWindowOnLastView=true&ui_appbar=false&ui-navbar=false&shareMode=embedded&action=view&mode=dashboard&subView=model00000188a423099c_00000000">
```

Dashboard And Story Embed With UI With Flask

Explanation video link: (Reference Video to Embed Dashboard & Story) -

https://drive.google.com/file/d/1n_1q1rDRKH0m8hxmlZB_3nCRjSzkCcGK/view?usp=sharing

Download Flask Application Files - Link

The screenshot displays three distinct sections of the "Online Education" application:

- Story Page:** The top section shows a title "Unveiling the Virtual Classroom: An In-depth Analysis of the Online Education System" and a list of questions under a "Get Started" button.
- Dashboard:** The middle section contains a bar chart titled "Student performance by level of education" and a donut chart titled "Correlation between economic status & performance".
- Contact Page:** The bottom section includes a "Our Address" form, "Email Us" and "Call Us" links, and a "Send Message" form.

Dashboard And Story Embed With UI With Flask

https://drive.google.com/file/d/1n_1q1rDRKH0m8hxmlZB_3nCRjSzkCcGK/view?usp=sharing

Project Demonstration & Documentation

Below mentioned deliverables to be submitted along with other deliverables

Record Explanation Video For Project End To End Solution

Record explanation Video for project end to end solution

Project Documentation-Step By Step Project Development Procedure

Create document as per the template provided