

LONG – TERM VIRTUAL INTERNSHIP PROGRAM 2024

An initiative of **SmartBridge** in collaboration with
Commissionerate of Collegiate Education

HANDBOOK

Data Analytics



SMARTBRIDGE EDUCATIONAL SERVICES PVT. LTD.



Data Analytics with Tableau

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15	Week-13:- Interview Preparation (2 hrs/day)	4
16	Week-14:- Career Development (1 hr/day)	4
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18	Knowledge Sessions	5
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Introduction:

Data analytics is the process of examining, interpreting, and transforming data into useful insights, which can then be used to drive informed decision-making. The importance of data analytics lies in its ability to help businesses and organizations gain a competitive advantage, identify areas for improvement, and make better decisions based on factual evidence rather than assumptions or guesswork

Tableau is a powerful data visualization tool used by organizations worldwide to analyze, visualize, and share insights from their data. It empowers users to create interactive and insightful dashboards that drive informed decision-making across various industries such as finance, healthcare, retail, and more.

Our Data Analytics with Tableau program is designed to equip beginners with the fundamental skills needed to harness the full potential of Tableau for data analysis and visualization. Through a combination of live sessions, hands-on practical activities, mentoring support, and curated modules, participants will gain a comprehensive understanding of data analytics concepts and how to apply them using Tableau.

Suggested Prerequisites:

Students have:

- Basic knowledge on Data analytics concepts
- Basic Knowledge on Data Visualization
- Basic understanding on HTML, CSS & JavaScript
- Basic Understanding on Database Concepts
- Basic Understanding on SQL

Please go through the below-mentioned link to install all the prerequisites. Which is necessary to attend the live session and complete your project tasks.

Tableau

- Download: <https://www.tableau.com/academic/students>
- Installation-guide: <https://www.youtube.com/watch?v=5qQJXgIXjcc>

MySQL

- Download: <https://www.mysql.com/downloads/>

- Installation-guide: <https://www.youtube.com/watch?v=k5tICunelSU>

Training

Training will be organized for 6 weeks where 5 Live Sessions will be conducted per week with 2 Hours per session. Learners need to complete the self-learning courses on the suggested platform parallelly along with the training live sessions. The Day wise content and references to complete the modules are given below.

Data Analytics				
S.no	Week	Day	Content	Self Learning Content
1	Week-1	Day-1	Introduction to Business Intelligence <ul style="list-style-type: none"> • Business Intelligence <ul style="list-style-type: none"> ○ Data Integration ○ Data Processing ○ Data Presentation ○ ETL Architecture • Introduction to Data Analytics. • Types of Data Analytics. <ul style="list-style-type: none"> ○ Descriptive Analytics <ul style="list-style-type: none"> ○ Diagnostic Analytics ○ Predictive Analytics ○ Prescriptive Analytics 	https://www.tableau.com/learn/articles/business-intelligences
2		Day-2	Introduction to Tableau <ul style="list-style-type: none"> • Introduction to tableau • Overview & Features • Connecting Tableau to Data Sources • Working with Flat files • Connecting spreadsheets 	https://www.youtube.com/watch?v=YfE9jBq002s
3		Day-3	Data Extraction <ul style="list-style-type: none"> • Introduction to Database • Creating Database & Table • CRUD Operation on database tables 	https://dev.mysql.com/doc/refman/8.0/en/what-is-mysql.html
4		Day-4	<ul style="list-style-type: none"> • Basic SQL Operations 	https://dev.mysql.com/doc/mysql-getting-started/en/#mysql-getting-started-basic-ops
5		Day-5	<ul style="list-style-type: none"> • Basic SQL Operations 	https://dev.mysql.com/doc/mysql-getting-started/en/#mysql-getting-started-basic-ops

6	Week-2	Day-6	Architecture of Tableau <ul style="list-style-type: none"> Architecture of Tableau Interface of Tableau (Layout, Toolbars, Data Pane, Analytics Pane, etc.) Tableau field types Saving and publishing a data source Live vs extract connection Various file types Ways to share and export the work done in Tableau 	https://help.tableau.com/current/blueprint/en-us/bp_server_architecture.htm
7		Day-7	Charts:- <ul style="list-style-type: none"> Histograms Box plot Motion Pie Bar Line Bubble 	https://www.tableau.com/data-insights/reference-library/visual-analytics/charts
8		Day-8	<ul style="list-style-type: none"> Bullet Scatter Tree Heat maps Maps Text table Highlighted table 	https://www.tableau.com/data-insights/reference-library/visual-analytics/charts
9		Day-9	<ul style="list-style-type: none"> Custom Charts 	https://www.youtube.com/watch?v=KJnyggxzZwE
10		Day-10	Working with Metadata and Data Blending <ul style="list-style-type: none"> Connecting to Data Source Tableau data types Connection to Excel Cubes and PDFs Management of metadata and extracts Data preparation 	https://help.tableau.com/current/pro/desktop/en-us/multi_ple_connections.htm
11	Week-3	Day-11	<ul style="list-style-type: none"> Joins (Left, Right, Inner, and Outer) and Union Dealing with NULL values, cross-database joining, data extraction, data blending, refresh extraction, incremental extraction, how to build extract, etc. cross-database joining Data blending 	https://www.youtube.com/watch?v=Z83UCZY_GEO

12		Advanced Data Manipulations <ul style="list-style-type: none"> Preview Mark and highlight Groups Sets (creating and editing sets, IN/OUT) Constant sets Computed sets Combined sets 	https://help.tableau.com/current/pro/desktop/en-us/sortgroup_sets_create.htm#:~:text=There%20are%20two%20types%20of,based%20on%20a%20single%20dimension.
13	Day-12	Assignment & Quiz-2	
	Day-13	<ul style="list-style-type: none"> Bins Hierarchies Sorting and Types Using the Formatting pane to work with the menu, fonts, alignments, settings, etc. Editing axes and annotations 	https://help.tableau.com/current/pro/desktop/en-us/calculations_bins.htm https://help.tableau.com/current/pro/desktop/en-us/qs_hierarchies.htm
14	Day-14	Working with Filters,Organizing Data <ul style="list-style-type: none"> Filters (addition and removal) Working with filters 	https://help.tableau.com/current/pro/desktop/en-us/filtering.htm

		<ul style="list-style-type: none"> Filtering continuous dates, dimensions, and measures 	
15	Day-15	<ul style="list-style-type: none"> Filtering in Tableau Types of filters Filtering the order of operations 	https://help.tableau.com/current/pro/desktop/en-us/filtering.htm
16	Day-16	Calculated Fields, Quick Table Calculations & LOD Expressions <ul style="list-style-type: none"> Calculated Fields in Tableau 	https://help.tableau.com/current/pro/desktop/en-us/calculations_calculatedfields_create.htm
17	Day-17	<ul style="list-style-type: none"> Quick Table Calculations 	https://help.tableau.com/current/pro/desktop/en-us/calculations_tablecalculations_quick.htm
18	Day-18	<ul style="list-style-type: none"> LOD Expressions in Tableau 	https://www.tableau.com/blog/LOD-expressions
19	Day-19	Working With Mapping ,Calculations and Expressions <ul style="list-style-type: none"> Working on coordinate points Plotting longitude and latitude Editing unrecognized locations Customizing geocoding, polygon maps, WMS: web mapping services 	https://help.tableau.com/current/pro/desktop/en-us/maps_build.htm
		Assignment & Quiz-3	

20		Day-20	<ul style="list-style-type: none"> Working on the background image, including add image Plotting points on images and generating coordinates from them Map visualization, custom territories How to create map projects in Tableau 	https://help.tableau.com/current/pro/desktop/en-us/maps_build.htm
21		Day-21	Working with Parameters <ul style="list-style-type: none"> Creating parameters Parameters in calculations Using parameters with filters Column selection parameters Chart selection parameters How to use parameters in the filter session How to use parameters in the reference line 	https://www.youtube.com/watch?v=bTuwymNOZN4 https://www.youtube.com/watch?v=y5P90Qme13k https://www.youtube.com/watch?v=hMsQ8TvVjo4
22		Day-22	Visual Analytics Pane <ul style="list-style-type: none"> K-means cluster analysis Trend and reference lines Visual analytics in Tableau Forecasting, confidence interval, reference lines, and bands 	https://www.youtube.com/watch?v=_qP6GUd-bPo
23		Day-23	Dashboards and Stories <ul style="list-style-type: none"> Building and formatting a dashboard using size, objects, views, filters, and legends Best practices for making creative dashboards 	https://help.tableau.com/current/pro/desktop/en-us/dashboards_create.htm
24	Week-5	Day-24	<ul style="list-style-type: none"> Creating multiple Dashboards 	https://help.tableau.com/current/guides/get-started-tutorial/en-us/get-started-tutorial-build.htm
25		Day-25	<ul style="list-style-type: none"> Creating stories Including the intro of story points Creating as well as updating the story points Adding catchy visuals in stories 	https://help.tableau.com/current/pro/desktop/en-us/stories.htm
26	Week-6	Day-26	<ul style="list-style-type: none"> Adding annotations with descriptions; dashboards and stories Highlight actions, URL actions, and filter actions Selecting and clearing values Dashboard examples using Tableau workspace and Tableau interface 	https://help.tableau.com/current/pro/desktop/en-us/story_create.htm
27		Day-27	Build Tableau Web Application <ul style="list-style-type: none"> Introduction to Flask Working with Flask Framework Introduction to Bootstrap 	https://flask.palletsprojects.com/en/3.0.x/

28		Day-28	<ul style="list-style-type: none"> Working with Bootstrap 	https://getbootstrap.com/
29		Day-29	<ul style="list-style-type: none"> Building application with flask framework 	https://www.tableau.com/developer/learning/embed-your-dashboards-web-app-20-minutes
30		Day-30	<ul style="list-style-type: none"> Embedding Dashboard & Story with web application Grand Assessment	https://www.tableau.com/developer/learning/embed-your-dashboards-web-app-20-minutes
31	Week-7		Project Development(2hrs/day+Knowledge Sessions (2 hr/day))	
32	Week-8		Project work (3 hrs/day) + AMA Session (1 hr/day)	
33	Week-9		Project work (3 hrs/day) + AMA Session (1 hr/day)	
34	Week-10		Project work (3 hrs/day) + AMA Session (1 hr/day)	
35	Week-11		Project work (3 hrs/day) + AMA Session (1 hr/day)	
36	Week-12		Project work (3 hrs/day) + AMA Session (1 hr/day))	
37	Week-13		Interview Preparation(2hr/day)	
38	Week-14		Career Development(1hr/day)	
39	Week-15		Career Development(1hr/day)	

The State of The Industry: A Deep Dive Into Video Game Sales Trends

Introduction:

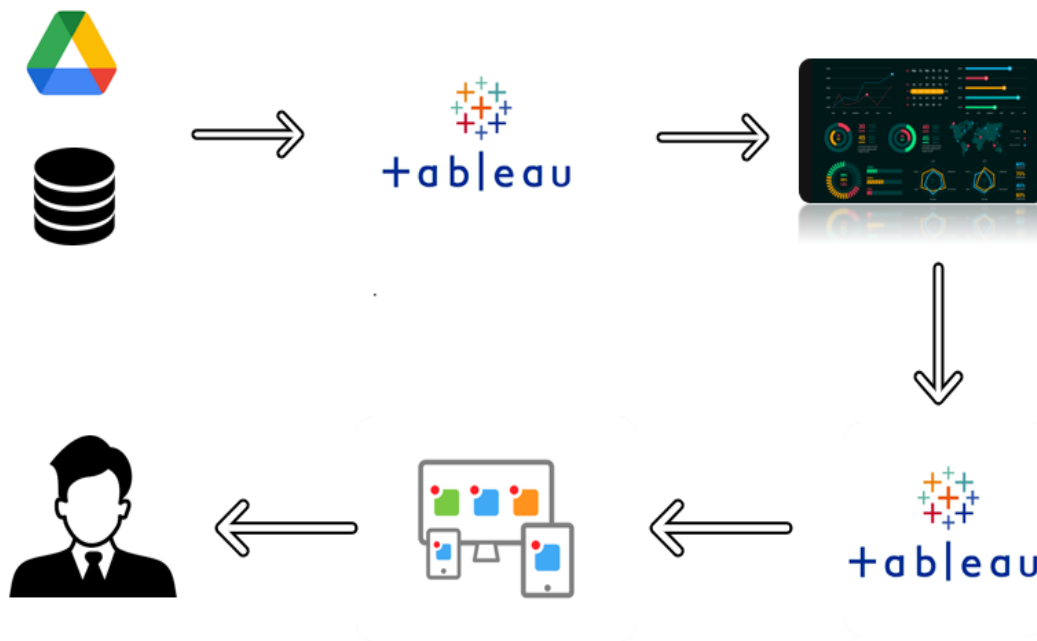
Video games since its inception has touched many souls by their augmented reality and graphics apart from being a good to boredom it is also show us the way technology has been developed from single Nintendo to PS5, from road rash to God of war.

This project is a complete analysis of video games sold since 1980. It consists of video games with their publisher and platform with the genre of games on which year they were published with the sales they made in North America, Japan, Europe and other regions.

Video game sales analysis is the process of collecting and analyzing data about the sales of video games in order to understand market trends and consumer behavior. This type of analysis can be useful for a variety of purposes, including identifying the most popular games and genres, predicting future sales, and developing marketing strategies. Video game sales analysis typically involves collecting data from Kaggle sources. It was generated by a scrape of vgchartz.com. This data may include information about the number of units sold, the retail price, and the platforms on which the games are played. Once the data has been collected, it is typically analyzed using tableau. The results of the analysis can be used to identify trends and patterns in the market, and to make informed decisions about the development and marketing of video games. Video game sales analysis may be conducted by game developers, publishers, retailers, and other industry professionals. It is an important part of the video game industry, as it helps to understand the needs and preferences of consumers and to identify opportunities for growth and innovation.

Analysing sales data from more than 16,500 games. This dataset contains a list of video games with sales greater than 100,000 copies. It was generated by a scrape of vgchartz.com.

Technical Architecture:



Milestone 1: Define Problem / Problem Understanding

Activity 1: Specify the business problem

Analysing sales data from more than 16,500 games. This dataset contains a list of video games with sales greater than 100,000 copies. It was generated by a scrape of vgchartz.com.

Activity 2: Business requirements

Business requirements for analyzing video game sales would include data on the sales of specific video games, information on the gaming industry as a whole, and data on consumer demographics and purchasing habits. This information can be used to identify trends and make informed decisions on marketing and development strategies for future video game releases. Additionally, it's also important to have information on platform sales, region, and competition in the market.

Activity 3: Literature Survey (Student Will Write)

Video Game Industry Analysis: Insights and Forecast- by Research and Markets (2016) This report provides a comprehensive analysis of the global video game industry, "Video Game Industry: Current Trends and Future Opportunities" by PwC (2019) - This report analyzes the current state of the global video game industry, including market size and growth, revenue streams, and consumer demographics. It also explores future opportunities for the industry, such as the potential for virtual reality and mobile gaming.

"Global Video Game Market: Size, Trends & Forecasts (2018-2022)" by Daedal Research (2018) - This report provides a detailed analysis of the global video game market, including market size and growth, segmentation by platform, and regional trends. It also includes market forecasts for the next five years.

"Video Game Sales by Platform: A Comparative Analysis" by Newzoo (2017) - This report compares the sales of video games across different platforms, including consoles, PC, and mobile. It also includes data on the top-selling games for each platform and analyses trends in the industry.

Activity 4: Social or Business Impact.

Social Impact:

Increased social interaction and connection through online multiplayer gaming. Increased awareness and representation of diverse groups in the gaming industry. Increased accessibility to gaming through mobile and online platforms. Increased use of gaming as a form of therapy or rehabilitation

Business Impact:

Increased revenue for the gaming industry. Increased competition among game developers and publishers. Increased investment in research and development for new technologies and platforms.

Milestone 2: Data Collection & Extraction from Database

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.

Activity 1: Collect the dataset

Please use the link to download the dataset: [here](#)

Activity 1.1: Understand the data

The data source of this project contains a list of video games with sales greater than 100,000 copies. It was generated by a scrape of vgchartz.com.

Fields include

1. Rank - Ranking of overall sales
2. Name - The games name
3. Platform - Platform of the games release (i.e. PC, PS4, etc.)
4. Year - Year of the game's release
5. Genre - Genre of the game
6. Publisher - Publisher of the game
7. NA_Sales - Sales in North America (in millions)
8. EU_Sales - Sales in Europe (in millions)
9. JP_Sales - Sales in Japan (in millions)
10. Other_Sales - Sales in the rest of the world (in millions)
11. Global_Sales - Total worldwide sales.

Activity 2: Storing Data in DB & Perform SQL Operations

Explanation video link:

<https://drive.google.com/file/d/1AaHtB0ThGM0F5rAk9dObILK-DyPIhdhsd/view?usp=sharing>

Basic SQL Operations

Explanation video link:

https://drive.google.com/file/d/1CB4A5b9AEqIxxDvopI3C_cRABJzwFRIL/view?usp=share_link

Activity 3: Connect DB with Tableau

Explanation video link:

<https://drive.google.com/file/d/1AaHtB0ThGM0F5rAk9dObILK-DyPIhdhsd/view?usp=sharing>

Milestone 3: Data Preparation

Activity 1: 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.

https://drive.google.com/file/d/1F5Dy9cJwVRBQINkxA2yv7A_hrl1pZGYL/view?usp=sharing

Milestone 4: 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.

Activity 1: 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 performance and efficiency of Radisson Hotels 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 sales of Games.

Activity 1.1: Sales in different region Analysis

Explanation video link:

https://drive.google.com/file/d/16sHu4Sa6nK3rISJ3jzd_Eyy7Hxo4_xS/view?usp=share_link

Activity 1.2: Genre with rank Analysis

Explanation video link: https://drive.google.com/file/d/197SQXo1_KIhJDkkuN-3wkN5n8ZF5CUu/view?usp=share_link

Activity 1.3: Total Sales Analysis

Explanation video link: https://drive.google.com/file/d/1oj3zH5OfBuYCE3ou-KocrS2byzAciC-p/view?usp=share_link

Activity 1.4: Top 5 publishers Analysis

Explanation video link: https://drive.google.com/file/d/1nWFpVRv-ne4zurKCC5A9NQtwRuluhLh/view?usp=share_link

Activity 1.5 Best 10 selling genres on platform Analysis

Explanation

video

link: https://drive.google.com/file/d/1ZUhFT8ubvmZGnnzPp1iZWE25tcZWuTVX/view?usp=share_link

Activity 1.6: Top 10 EU selling video games Analysis

Explanation

video

link:

https://drive.google.com/file/d/1zm4cmQ4YVO_3T_BWuXimWrvkm7NEjNhd/view?usp=share_link

Activity 1.7 Top 10 Japan selling video games Analysis

Explanation

video

link:

https://drive.google.com/file/d/1JPz3s-73_METtmyo7QJm1ioNhWGCKfB8/view?usp=share_link

Activity 1.8: Top 10 NA selling video games

Explanation video link:

https://drive.google.com/file/d/1253HcByFotBouaUO0qv1BLS_mLTcPQT9/view?usp=share_link

Milestone 5: 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.

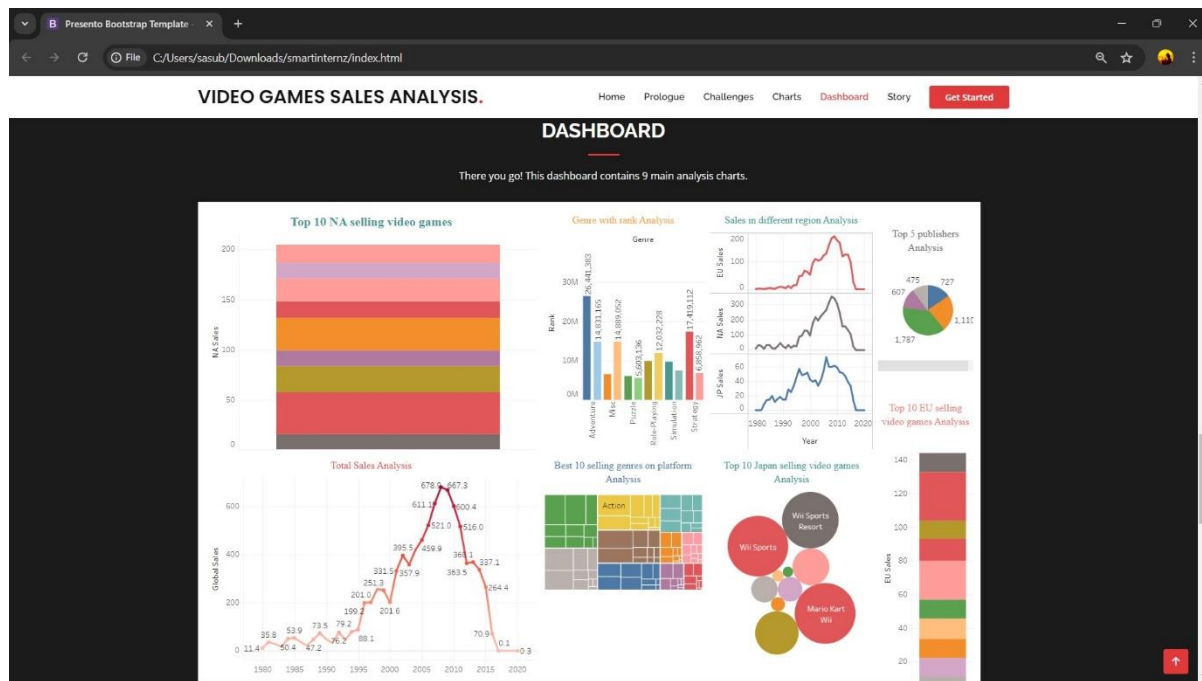
Activity :1- Responsive and Design of Dashboard

The responsiveness and design of a dashboard for analyzing the performance and efficiency of Radisson Hotels 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, providing actionable insights to improve the performance and efficiency of Radisson Hotels.

Once you have created views on different sheets in Tableau, you can pull them into a dashboard.

Explanation video link:

https://drive.google.com/file/d/1q_KbJMFMB6I40a0eLuSnYef4KJdG_dl/view?usp=share_link



Milestone 6: 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.

Activity:1- No of Scenes of Story

The number of scenes in a storyboard for a data visualization analysis of the performance and efficiency of video games analysis 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.

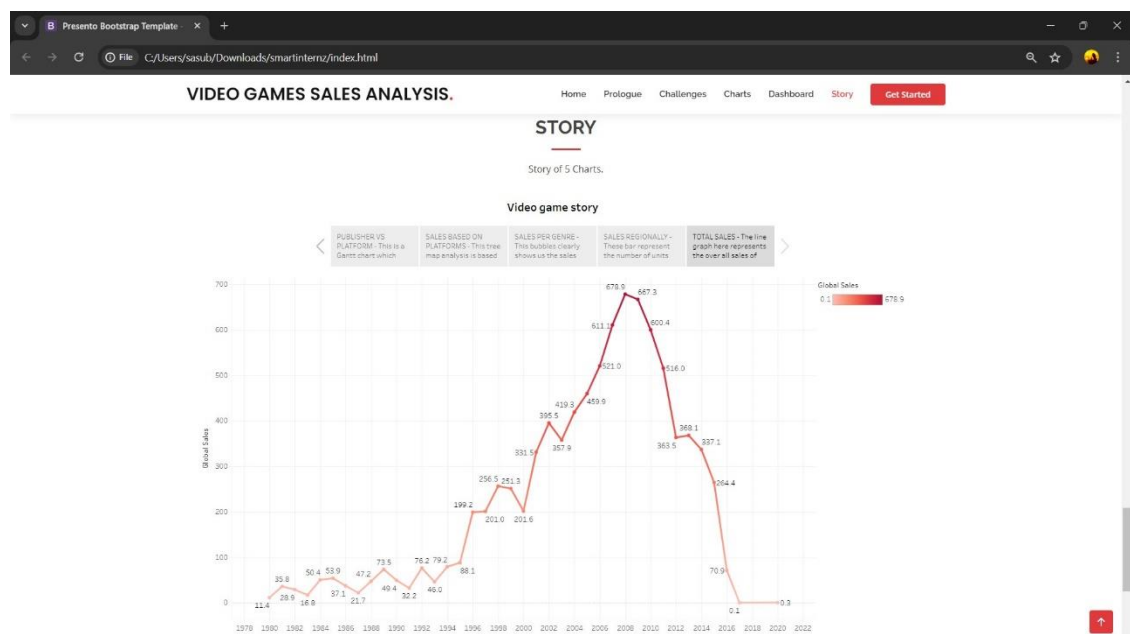
Explanation video link:

Story Part 1:

https://drive.google.com/file/d/1Ece7JJN8IEET4tnhH0lxWPP84y0yz8UN/view?usp=share_link

Story Part 2:

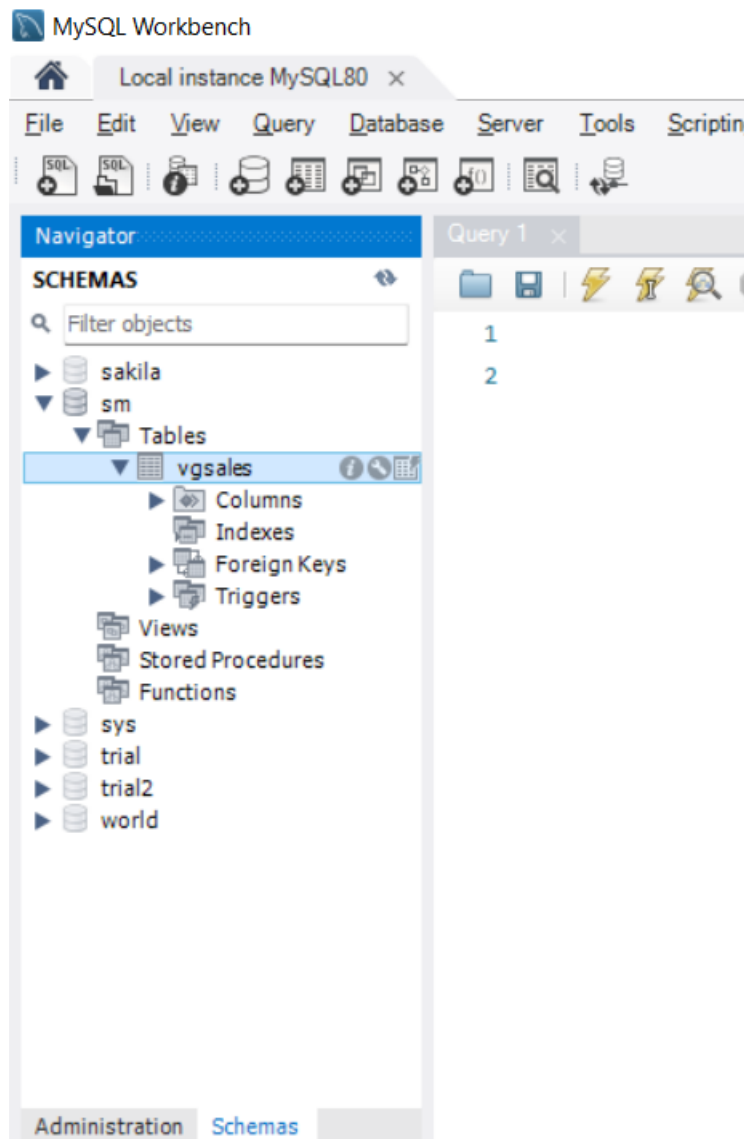
https://drive.google.com/file/d/1LhQqrYfWKAgsmg8K36mRHsBLYvv9j8rn/view?usp=share_link

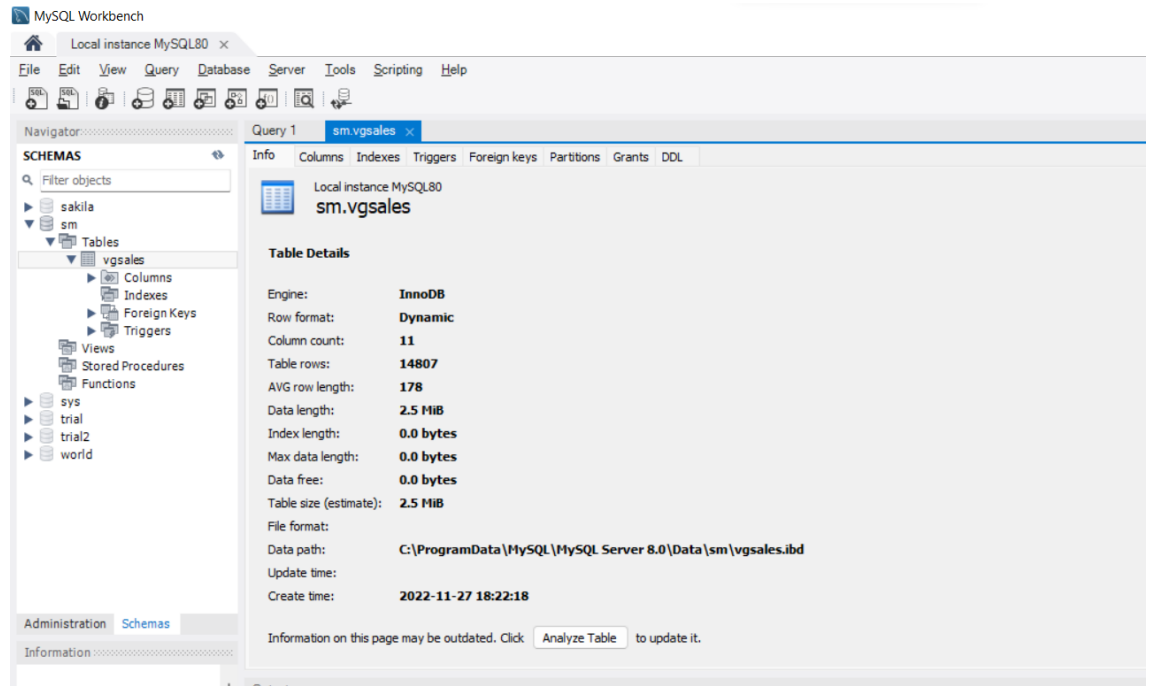


Milestone 7: Performance Testing

Activity 1: Amount of Data Rendered to DB

- The amount of data that is rendered to a database depends on the size of the dataset and the capacity of the database to store and retrieve data.
- Open the MySQL Workbench, go to the database then click to expand the tables, select the table and click on (i) button to get the information related to table such as column count, table rows etc.





Activity 2: Utilization of Data Filters



Activity 3: No of Visualizations/ Graphs

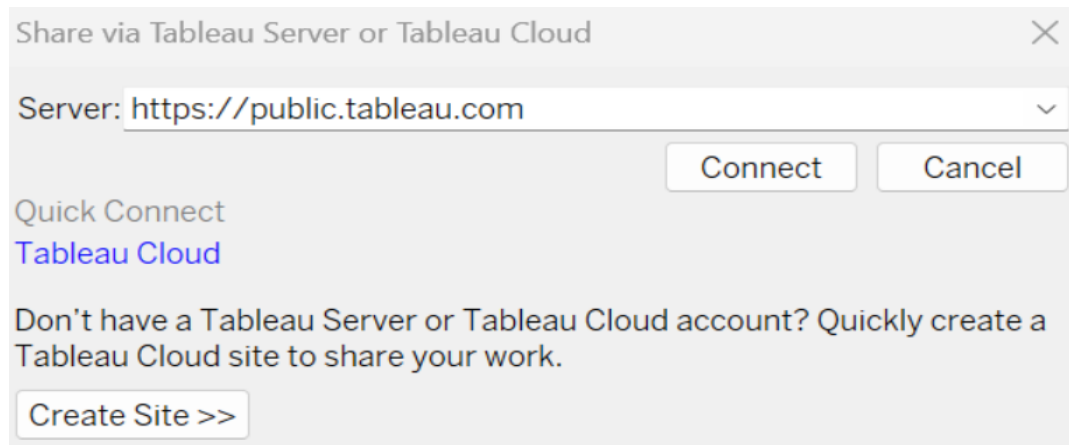
1. Sales in different region Analysis
2. Genre with rank Analysis
3. Total Sales Analysis
4. Top 5 publishers Analysis
5. Best 10 selling genres on platform Analysis
6. Top 10 EU selling video games Analysis
7. Top 10 Japan selling video games Analysis
8. Top 10 NA selling video games

Milestone 8: 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.

Publishing dashboard and reports to tableau public

Step 1: Go to Dashboard/story, click on share button on the top ribbon



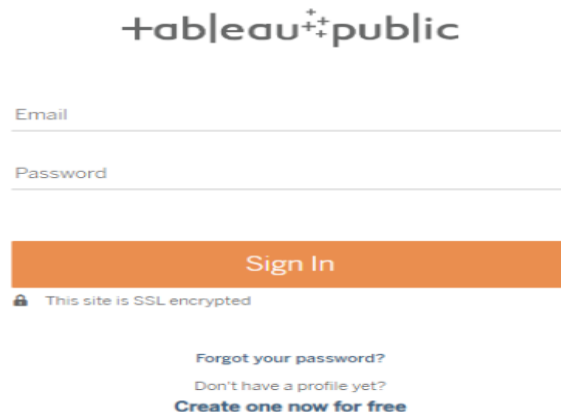
Give the server address of your tableau public account and click on connect.

Explanation Video:-

<https://drive.google.com/file/d/1AKAk2hiVyqS3td148uHbxx-Nk-k0uxET/view?usp=sharing>

You can take the above video as reference for this project.

Step 2: Once you click on connect it will ask you for tableau public user name and password

The image shows the Tableau Public login interface. At the top is the 'tableau++public' logo. Below it are two input fields: 'Email' and 'Password'. A large orange 'Sign In' button is centered below the fields. Under the button, there is a small lock icon and the text 'This site is SSL encrypted'. At the bottom, there are three links: 'Forgot your password?', 'Don't have a profile yet?', and 'Create one now for free'.

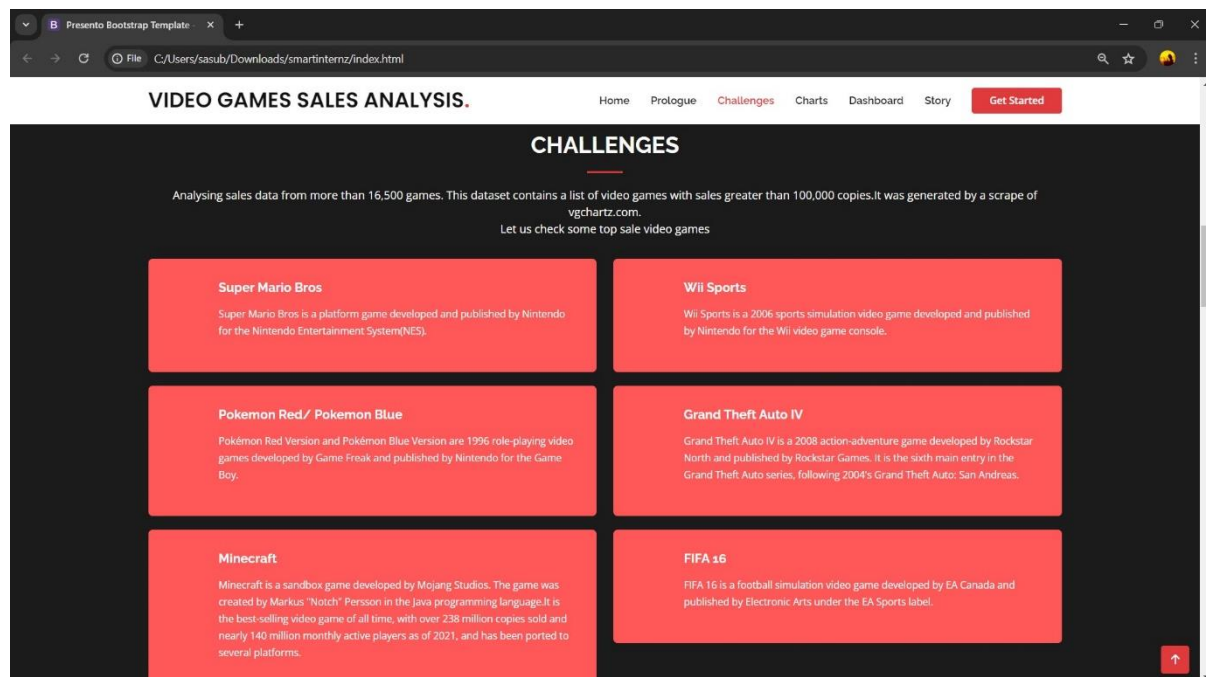
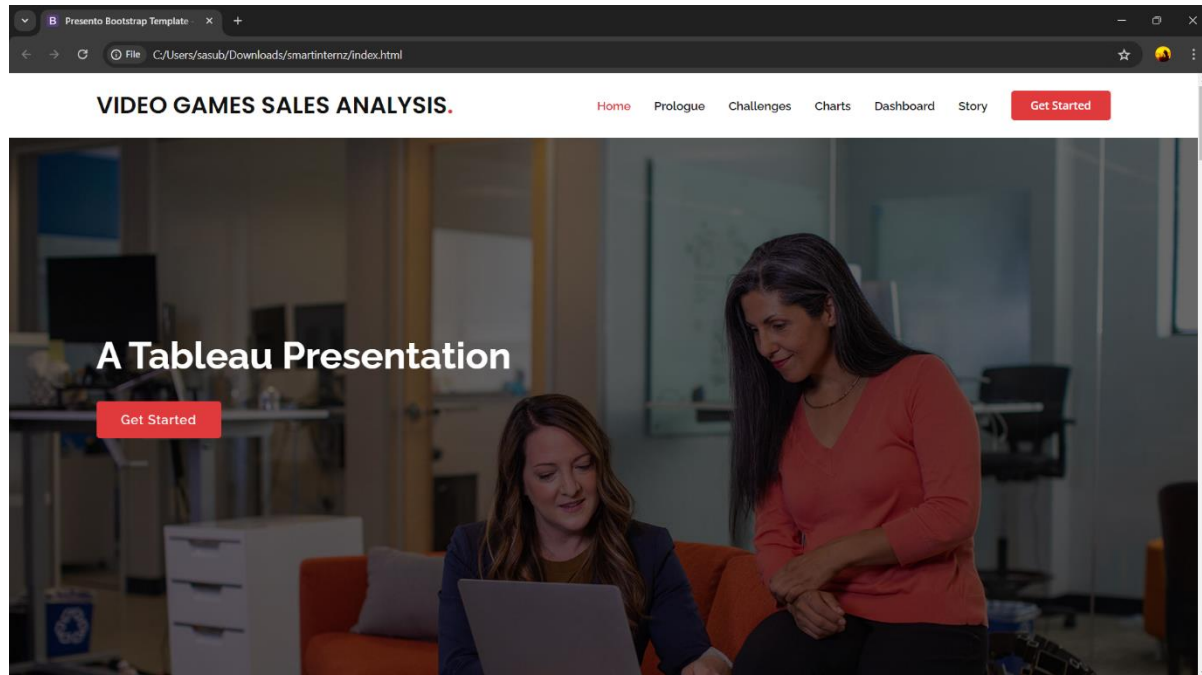
Once you login into your tableau public using the credentials, the particular visualization will be published into tableau public

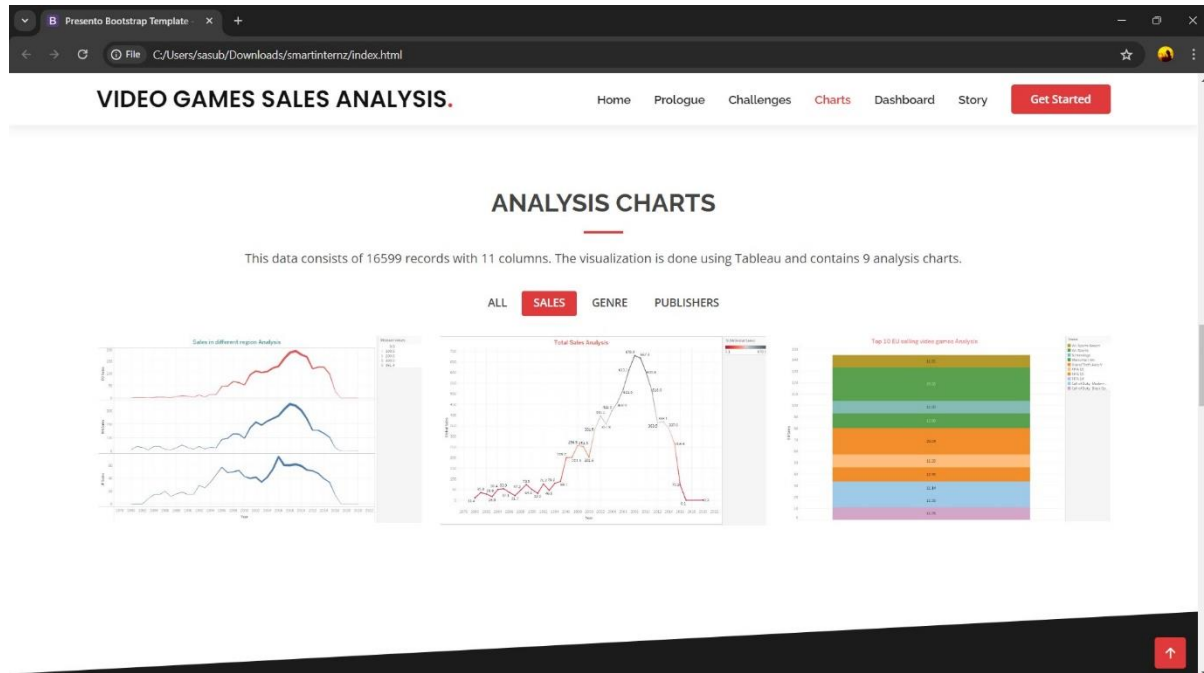
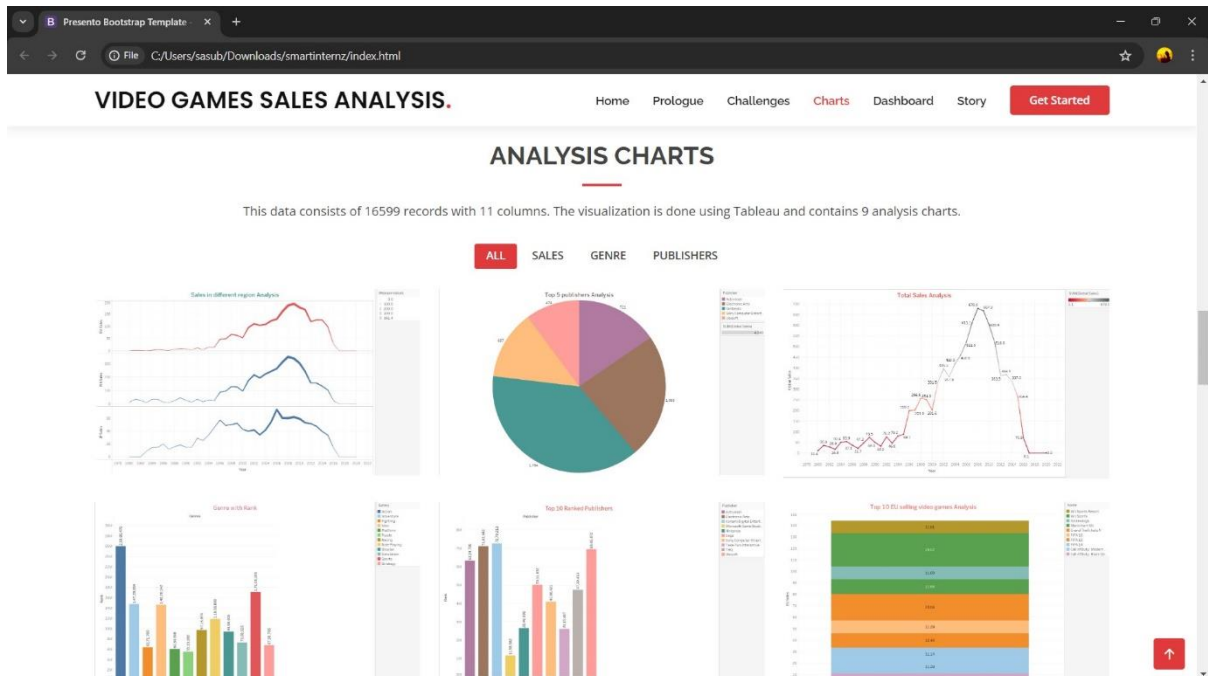
Note: While publishing the visualization to the public, the respective sheet will get published when you click on share option.

Activity 1: Dashboard and Story embed with UI With Flask

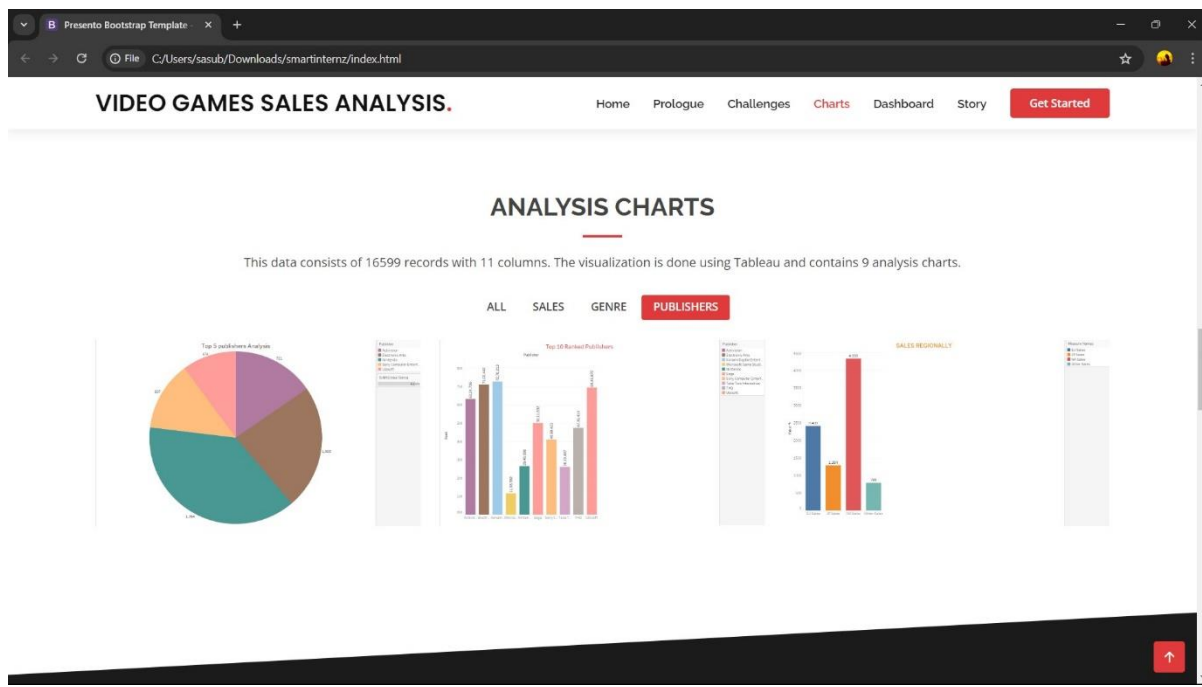
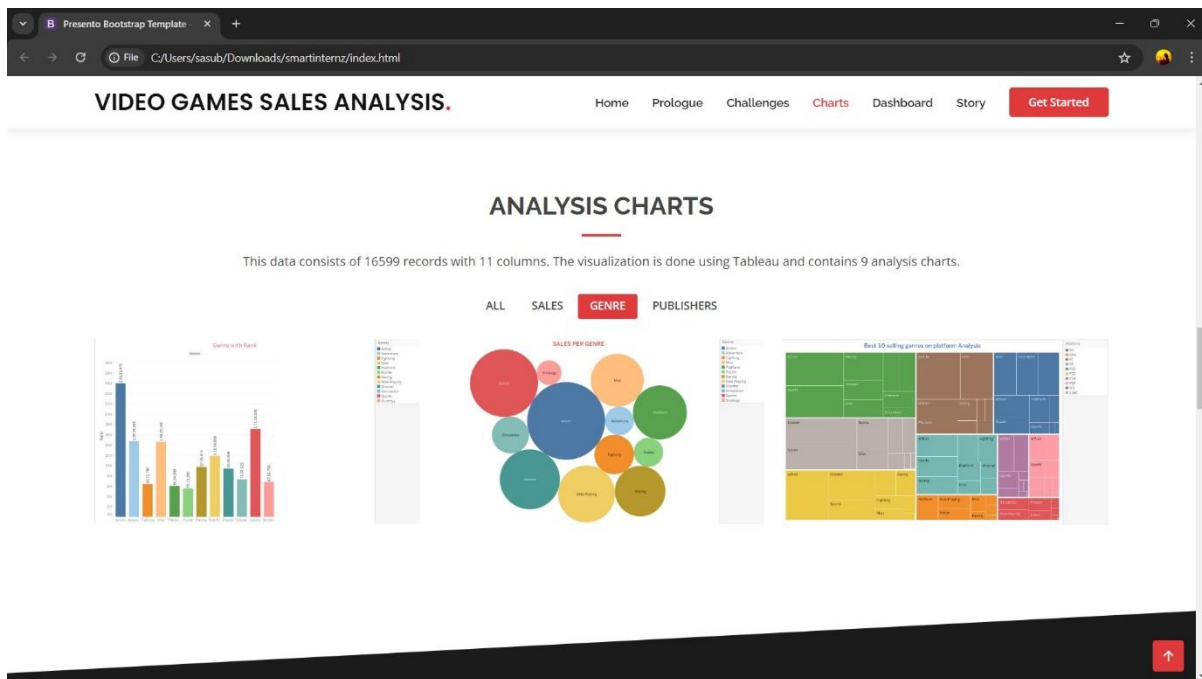
Explanation video link:

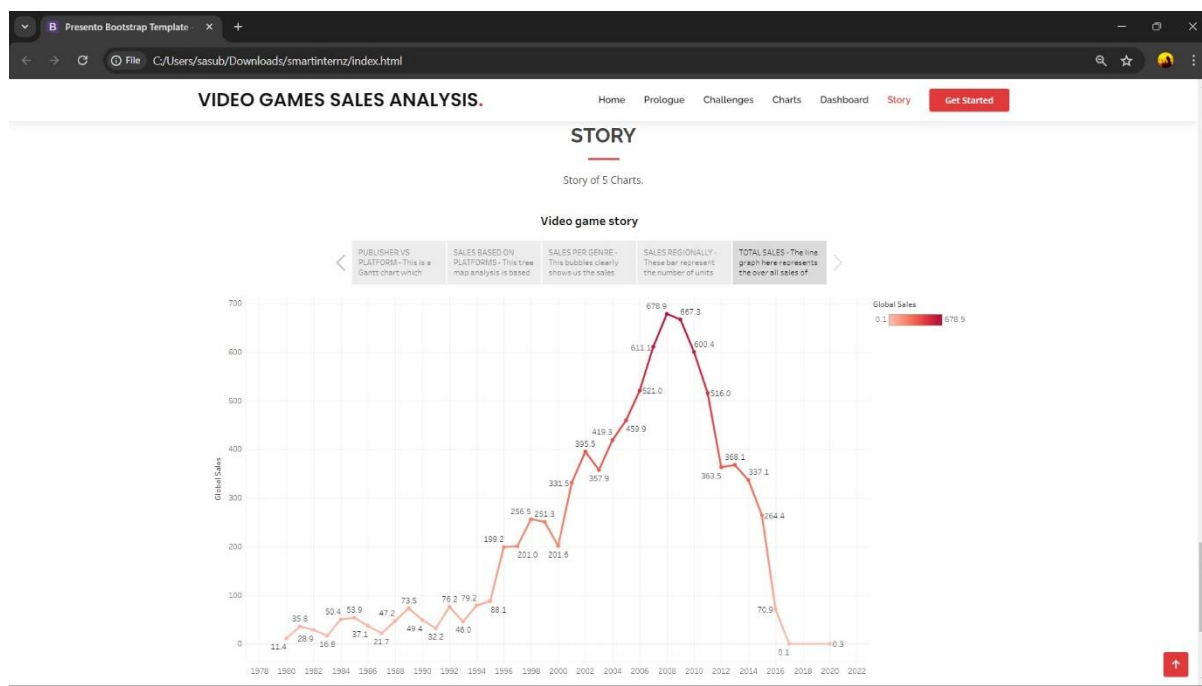
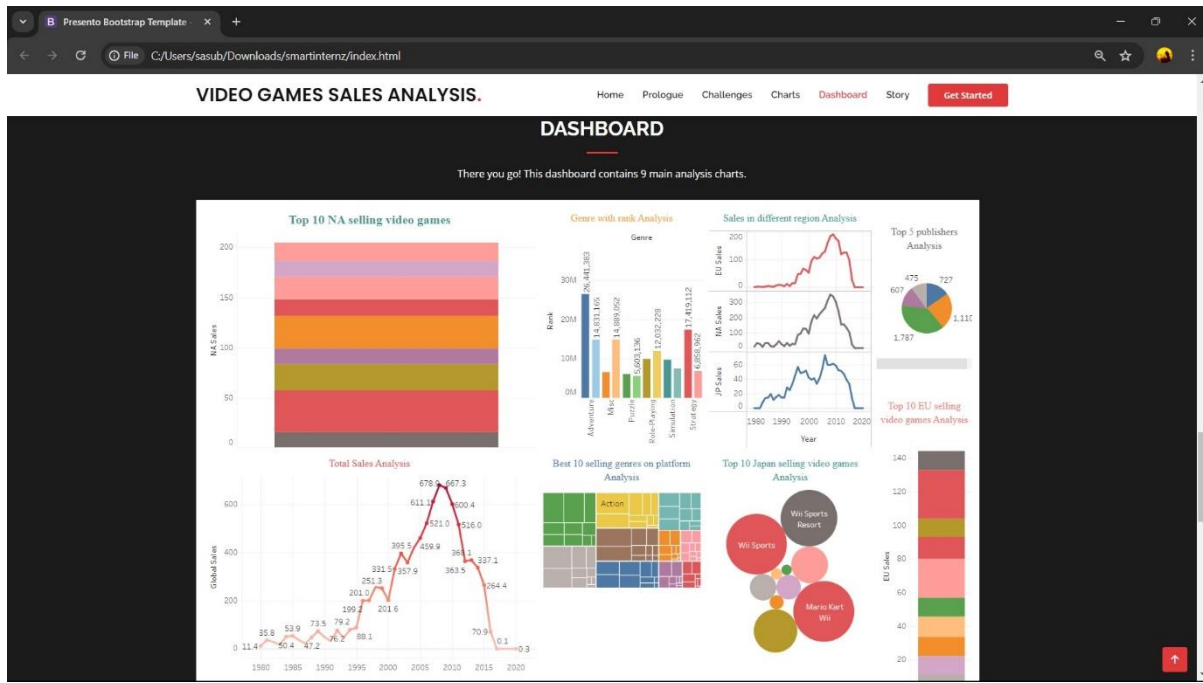
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Conclusion.

The video game industry continues to experience growth and evolution, driven by technological advancements, changing consumer preferences, and innovative business models. The shift towards digital distribution and the rise of mobile gaming have significantly impacted the market landscape.

To stay competitive, companies need to focus on understanding and responding to consumer demands, embracing new technologies, and adopting agile business strategies. By staying ahead of trends and embracing innovation, the video game industry is well-positioned for continued growth and success in the future.

Knowledge Session

Knowledge sessions will be organized for one week (week – 7) , during which five live sessions will be conducted daily. Each session will last for two hours, providing students with a comprehensive understanding of the project phases. This will enable them to complete the project based on industry standards.

Assignment & Quiz

As part of the training program, we will be assigning assignments and quizzes every 15 hours. These assignments and quizzes are designed to help you learn and understand the concepts being covered in the training.

Grand Assessment

We will be conducting a grand assessment after completing the training sessions to evaluate your overall performance and understanding of the concepts covered in the training.

Project Work

Students need to work on their selected project based on the project phase tasks for 5 weeks where they have to work daily 3 Hours dedicatedly from week 8 to week 12 to complete their project task on time for successful submission.

Ask Me Anything Sessions

After assigning the projects for the learners, if they face any challenge in completion of the milestones, activities or phase wise task, we organize Ask Me Anything (AMA) sessions to address the queries, learners have daily AMA sessions for 1 hour from week 8 to week 12 to solve the queries.

Submissions

Each learner's journey and completion status is tracked through SmartInternz platform. learners will be asked to update the status of their work regularly to track their progress and assist accordingly.

Evaluation

We will verify the progress of each learner on the SmartInternz platform. It is mandatory for all the learners to complete all the milestones, project phases, tasks and submit successfully on the platform.

Certificate Generation

After successful verification of your project by an industry evaluator, the team will generate the certificate for students.

Interview Preparation

After the successful submission of the project, the Learners will be provided with 10 Hrs of Interview preparation to learn about Interview skills, Profile building and presentation skills etc. This will benefit them during career fairs.

Career Fair

After successful completion of the program, the final year learners who will qualify the career fair will be allowed to join the career fair organized on the regular intervals for career connection opportunities.

FAQs:

1. Do we need any prior knowledge?

- Basic knowledge on Data analytics concepts
- Basic Knowledge on Data Visualization
- Basic understanding on HTML, CSS & JavaScript
- Basic Understanding on Database Concepts
- Basic Understanding on SQL

2. How could this course help us?

- This course helps in gaining knowledge about Data Analytics from scratch and the final year Learners enrolled in this course have an opportunity to participate in a career fair.

3. What is a career fair?

- Career fair is a type of informational or recruitment/outreach event that connects recruiters and candidates in a virtual space. Attendees can learn about various organizations or sponsors and career opportunities from the comfort of their own home, with all of the ease afforded by a virtual platform.

4. What is the Course duration?

- This program is a 15 weeks long engagement with the students with an overall 240 Hrs of learning journey.

5. Is this a team-based activity?

- Yes, students should enroll in the program as a team. A team can have 4,5 members with a team lead.

6. How can a student enroll in the Virtual Internship Program?

- Students need to enroll with APCCE for this program and they would get SmartInternz platform credentials before the start of the program.

7. Is there any support channel for students?

- Yes, we provide a project chat channel where students interact with industry mentors.

8. What is the minimum educational qualification? • All the graduation learners.

9. Do we have access to the recorded sessions?

- Yes, we provide the access for the recorded sessions.

10. Is it mandatory to maintain attendance?

- The Learner needs to maintain a 75% attendance.

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