

Model Program Book



SHORT TERM INTERNSHIP (On-Site/Virtual)

Designed & Developed by



**ANDHRA PRADESH
STATE COUNCIL OF HIGHER EDUCATION**
(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)

Acknowledgement

I would sincerely like to thank APSCHE for providing me with this corporate Internship which helped me to gain, practical experience & knowledge on the topic " Data Analytics".

I would sincerely like to thank our respected Principal Sir Dr. G.S.K Chakravarty for giving me this wonderful opportunity.

I would like to sincerely thank our head of Department Mrs. N.K. Mahesh , Department of BBA , and our Guide who helped in this Project " D. VARIJIA " . for being a wonderful Mentor of this period.

I would like to thank god , My Parents , My Friends & My Mentor without whose help this project would not have been completed.

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CHAPTER 1: EXECUTIVE SUMMARY

The internship report shall have only a one-page executive summary. It shall include five or more Learning Objectives and Outcomes achieved, a brief description of the sector of business and intern organization and summary of all the activities done by the intern during the period.

Description of the Sector of business & Intern organization :-

Smart Bridge operates in the data analytics sector, providing innovative solutions to enhance business intelligence. The organization leverages IBM Cognos Analytics to empower clients with actionable insights, enabling data-driven decision-making.

Learning Objectives and Outcomes :-

1. Mastery of IBM Cognos Analytics , 2. Data cleansing
3. Data preprocessing & Manipulation , 4. Statistical Analysis
5. Mastery of Python Programming , 6. Web designing

Summary of Internship Activities :-

1. Attending five training sessions & project-mentoring sessions
2. Selection of topic - "Analysing YouTube Metrics" & gathering, cleansing & analysing & assignment to tasks to team members.
3. Team formation & assignment of tasks to team members.
4. Designing & Developing interactive dashboard, story, Report on project using IBM Cognos Analytics & web integration.

CHAPTER 2: OVERVIEW OF THE ORGANIZATION

Suggestive contents

- A. Introduction of the Organization
- B. Vision, Mission, and Values of the Organization
- C. Policy of the Organization, in relation to the intern role
- D. Organizational Structure
- E. Roles and responsibilities of the employees in which the intern is placed.
- F. Performance of the Organization in terms of turnover, profits, market reach and market value.
- G. Future Plans of the Organization.

Smart Bridge is a platform that offers virtual internship to the students. The platform's goal is to prepare students for the job market by establishing a cooperative relationship between industry & academia. Smart Bridge partners with companies such as Google to offer virtual internship. The internship provide students with hands-on experience with the latest technologies & enable project-based learning. "Smart Bridge" flagship event is the "Summer Internship Program". The program develops students skills in emerging technologies. i.e 1. Artificial 2. Machine Learning 3. Internet of things.

Organization's Objective :-

Smart Bridge main objective is to bridge the existing gap between prevailing Industry standards And what the academics offers of the graduate's while passing out of University. Smart Bridge offers suitable skills development & training to the young talent before on boarding . Their first job. their skill development programmes are designed

Considering the present in Demand skills in the industry. We there by work along the line to offer Best programs that helps the students to gain practical knowledge & hands on training to learn skills of the future. There fore, the main objectives of Smart Bridge is providing internship for every student, promote industry approved professional electives & becomes a talent factory of India by 2026.

CHAPTER 3: INTERNSHIP PART

Description of the Activities/Responsibilities in the Intern Organization during Internship, which shall include - details of working conditions, weekly work schedule, equipment used, and tasks performed. This part could end by reflecting on what kind of skills the intern acquired.

Description of the activities / Responsibilities Undertaken

1. Registering with apsche Smartbridge & enrolling for Smartbridge's Data analytics course i.e live training sessions as per the Pre-Scheduled training calendar.
2. Participating weekly assignment with respect data analytics.
3. Team formation & selection of project topic "Analysing YouTube Metrics".
4. Gathering, cleaning & analyzing the Excel data sets of the project topic - "Analysing YouTube Metrics".
5. Attending project mentoring sessions & designing & developing interactive dashboard, story, report on the project topic using Power BI.
6. Drafting a project video demonstration & preparation of final report.
7. Submission of team project via uploading the project files in GITHUB Repository of the team.

YOUTUBE METRICS

Presented by K. VINAY
and team.

TEAM **MEMBERS**



SHABISTA ALEEMA



DIVAKARLA ANKITHA



V. JAGANNATH



MULA SANJANA

Data Collection

Downloading the dataset

<https://www.kaggle.com/datasets/nelgiriyewithanayakar/2023-global-youtube-statistics>

The screenshot shows the Kaggle interface for the 'Global YouTube Statistics 2023' dataset. The page features a Data Card with metrics like Code (110), Discussion (13), and Suggestions (0). It also includes sections for 'About Dataset', 'Description', 'Usability' (10.00), and 'License' (Other (specified in description)). A sidebar on the left lists recent downloads: 'archive.zip' and 'archive.pdf'. The URL of the dataset page is displayed at the bottom.

DATA EXTRACTION FROM DATABASE

rank	Youtuber	category	channel_type	Sum of channel_type_rank	Country
1	T-Series	Music	Music	1	India
3	MrBeast	Entertainment	Entertainment	1	United States
4	Cocomelon - Nursery Rhymes	Education	Education	1	United States
5	SET India	Shows	Entertainment	2	India
9	Like Nastya	People & Blogs	People	25	Russia
10	Vlad and Niki	Entertainment	Entertainment	6	United States
11	Zee Music Company	Music	Music	2	India
12	WWE	Sports	Sports	1	United States
14	BLACKPINK	People & Blogs	Music	3	South Korea
16	Sony SAB	Shows	Entertainment	7	India
18	BANGTANTV	Music	Music	4	South Korea
20	Justin Bieber	Music	Music	6	Canada
21	HYBE LABELS	Music	Music	5	South Korea
22	Zee TV	Entertainment	Entertainment	8	India
23	Pinkfong Baby Shark - Kids' Songs & Stories	Education	Education	2	United States
25	ChuChu TV Nursery Rhymes & Kids Songs	Education	Education	3	India
26	Shemaroo Filmi Gaane	Music	Music	8	India
27	Colors TV	Shows	Entertainment	9	India
29	Dude Perfect	Sports	Sports	3	United States
30	Movieclips	Film & Animation	Film	3	United States
31	Tips Official	Music	Music	10	India
32	El Reino Infantil	Music	Music	11	Argentina
33	Maria Music	Music	Music	12	India
Total				180393	

Understand the data

Data contains all the meta information about the important columns described in the CSV file

YOUTUBER: Name of the youtuber name

CATEGORY: Channel category

COUNTRY: Country of the youtuber

HIGHEST MONTHLY

EARNING: The highest monthly earnings of the channel

SUM OF SUBSCRIBERS: The total subscribers of the channel

SUM OF UPLOADS: The total views of the channel

SUM OF VIDEO VIEWS: The total views of the channel

Global YouTube Statistics

rank	Youtuber	subscribers	video views	category
1	T-Series	245000000	2.28E+11	Music
2	YouTube Movies	170000000	0	Film & Animation
3	MrBeast	166000000	28368841870	Entertainment
4	Cocomelon - Nursery Rhymes	162000000	1.64E+11	Education
5	SET India	159000000	1.48E+11	Shows
6	Music	119000000	0	nan
7	ÿÿÿ Kids Diana Show	112000000	93247040539	People & Blogs
8	PewDiePie	111000000	29058044447	Gaming
9	Like Nastya	106000000	90479060027	People & Blogs
10	Vlad and Niki	98900000	77180169894	Entertainment
11	Zee Music Company	96700000	57856289381	Music
12	WWE	96000000	77428473662	Sports
13	Gaming	93600000	0	nan
14	BLACKPINK	89800000	32144597566	People & Blogs
15	Goldmines	86900000	24118230580	Film & Animation
16	Sony SAB	83000000	1.01E+11	Shows
17	5-Minute Crafts	80100000	26236790209	Howto & Style

The data in the preview has been truncated due to size limits.

Load Transform Data Cancel

DATA LOADING

Data loading in Power BI involves importing data from various sources to create interactive reports and dashboards. Users can connect to a wide range of data sources, including databases, Excel files, cloud services, and more.

Abbreviation	category	channel_type	Sum of channel_type_rank	Country
AE	Autos & Vehicles	Autos	1	United Arab Emirates
AE	Comedy	Entertainment	102	United Arab Emirates
AE	Gaming	Entertainment	141	United Arab Emirates
AE	nan	People	9	United Arab Emirates
AE	nan	People	14	United Arab Emirates
AE	People & Blogs	News	23	United Arab Emirates
AE	People & Blogs	People	2	United Arab Emirates
AF	Music	Games	7136	Afghanistan
AR	Comedy	Comedy	28	Argentina
AR	Comedy	Entertainment	71	Argentina
AR	Comedy	Entertainment	98	Argentina
AR	Education	Education	28	Argentina
AR	Entertainment	Entertainment	80	Argentina
AR	Entertainment	Games	35	Argentina
AR	Entertainment	Games	12	Argentina
AR	Film & Animation	Music	107	Argentina
AR	Gaming	Games	43	Argentina
AR	Music	Music	11	Argentina
AR	Music	Music	37	Argentina
AU	Music	People	7629	Australia
AU	Sports	Sports	6	Australia
BB	Entertainment	Music	27	Barbados
BR	Autos & Vehicles	Entertainment	90	Brazil
Total				180393

DATA CLEANING

Data cleaning in Power BI is a crucial step to ensure the accuracy and reliability of your analysis. It involves identifying and correcting errors, inconsistencies, and incomplete data within your datasets. Power BI's Power Query Editor provides a range of tools to remove duplicates, handle missing values, and standardize data formats.

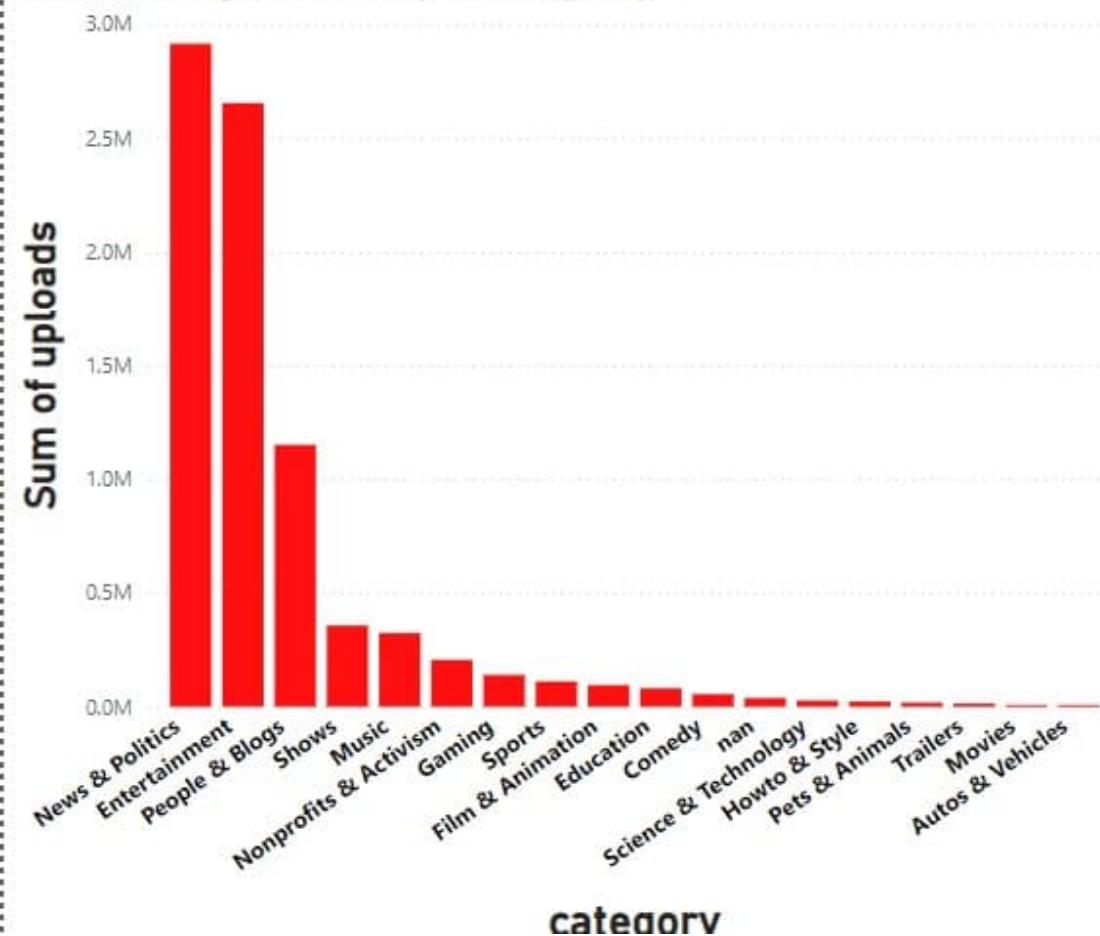


SUBSCRIBE

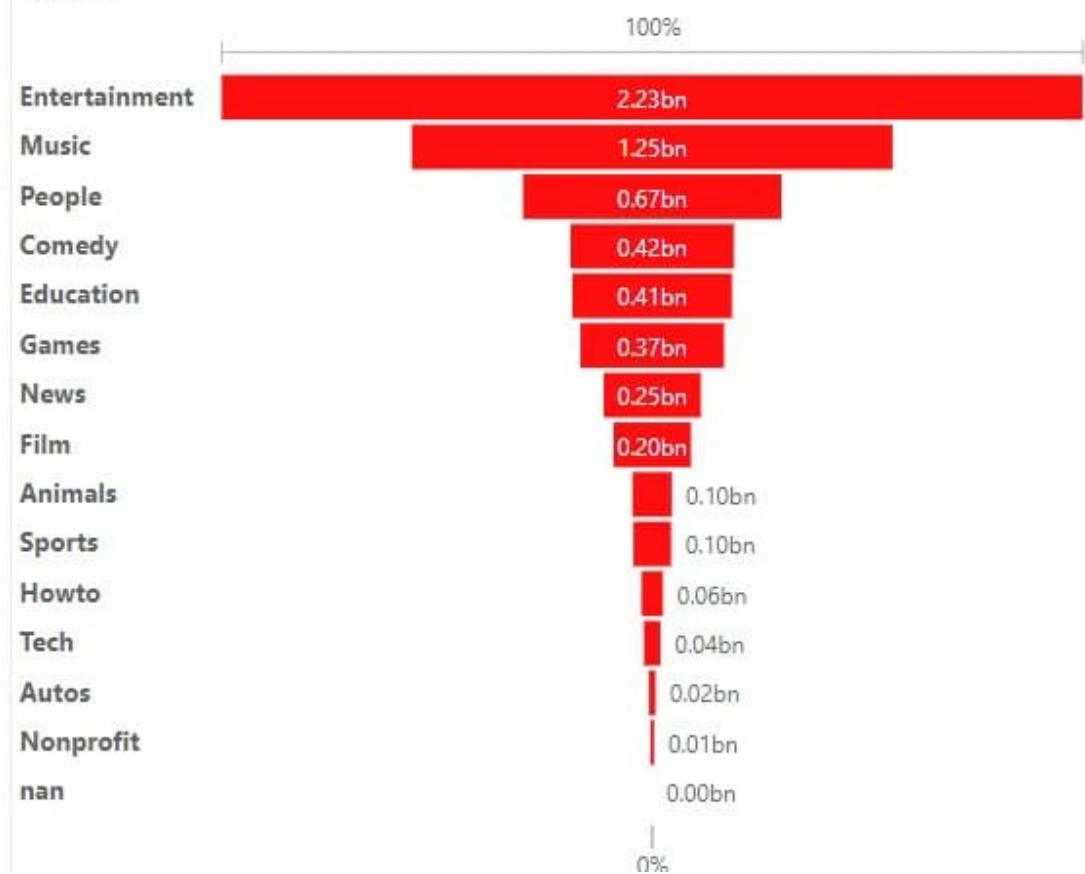


DATA VISUALISATION

Sum of uploads by category



Sum of highest yearly earnings by channel type





SUBSCRIBE



Like

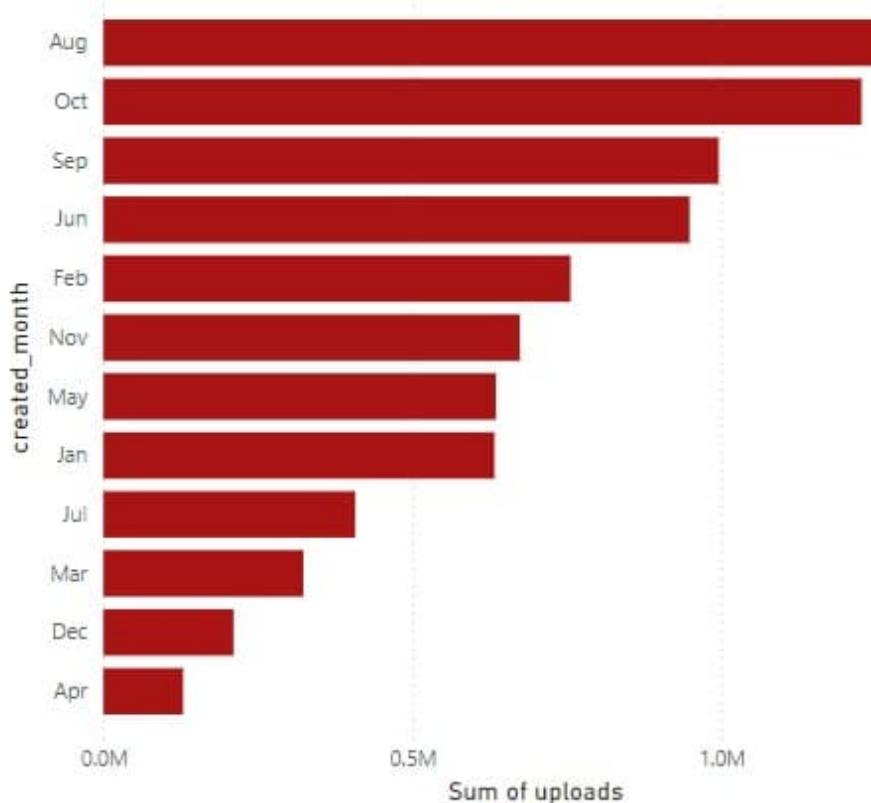
Comment

Share

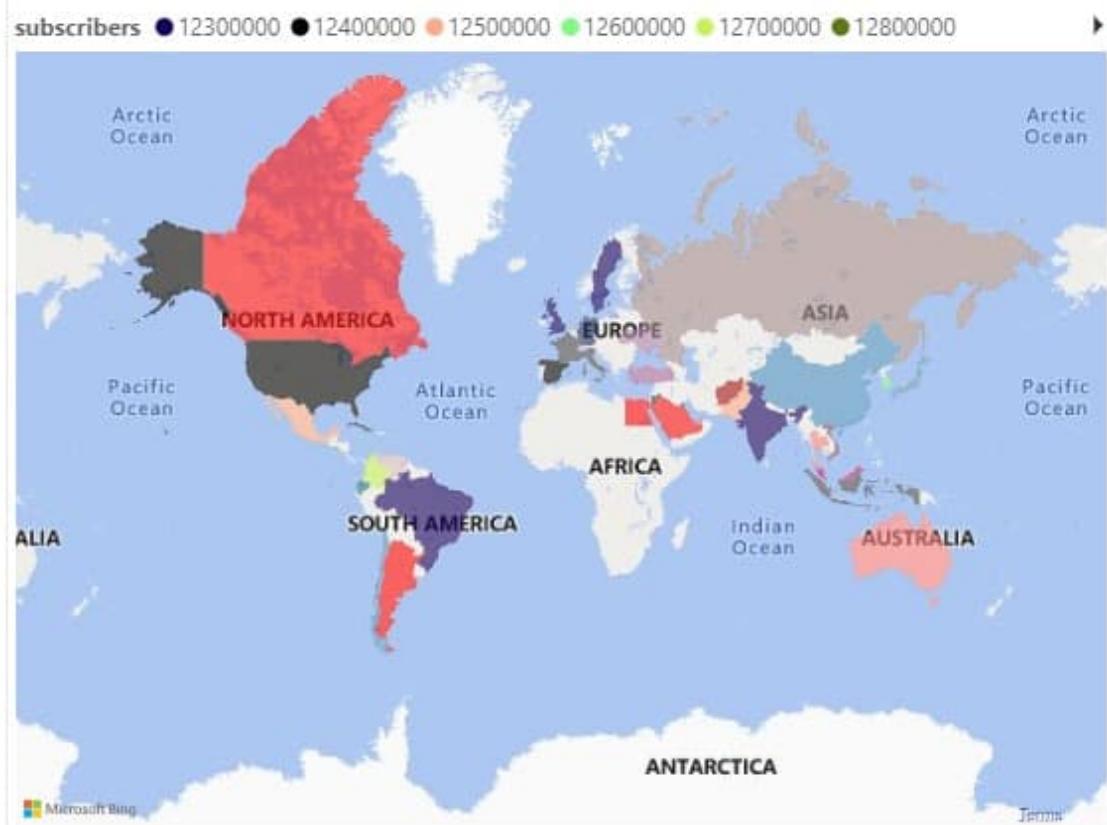


...

Sum of uploads by created_month



Subscribers by country



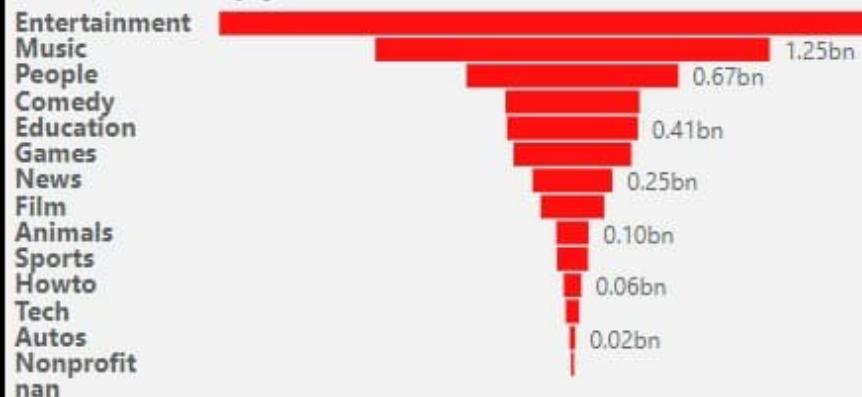
K.VINAY

Sum of subscribers and Sum of uploads

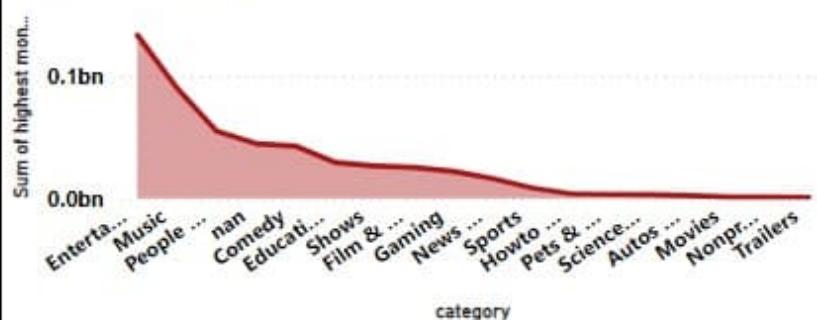
● Sum of subscribers ● Sum of uploads



Sum of highest yearly earnings by channel type



Sum of highest monthly earnings by Country

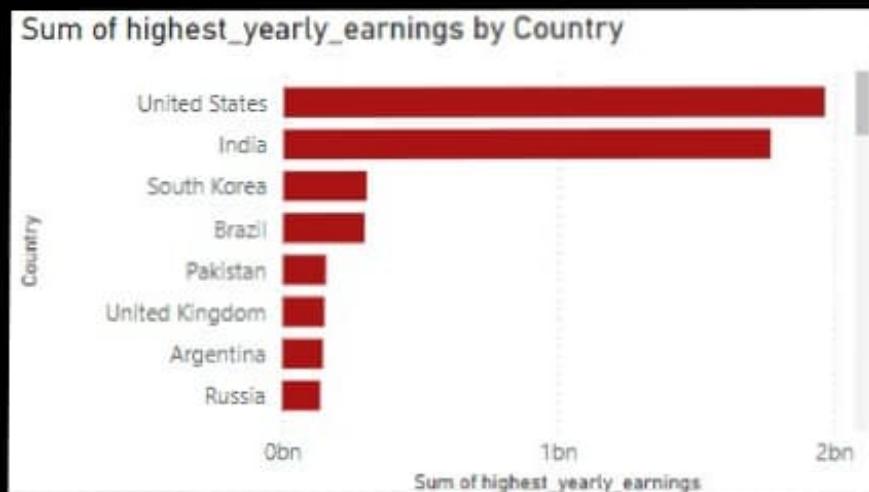


144bn

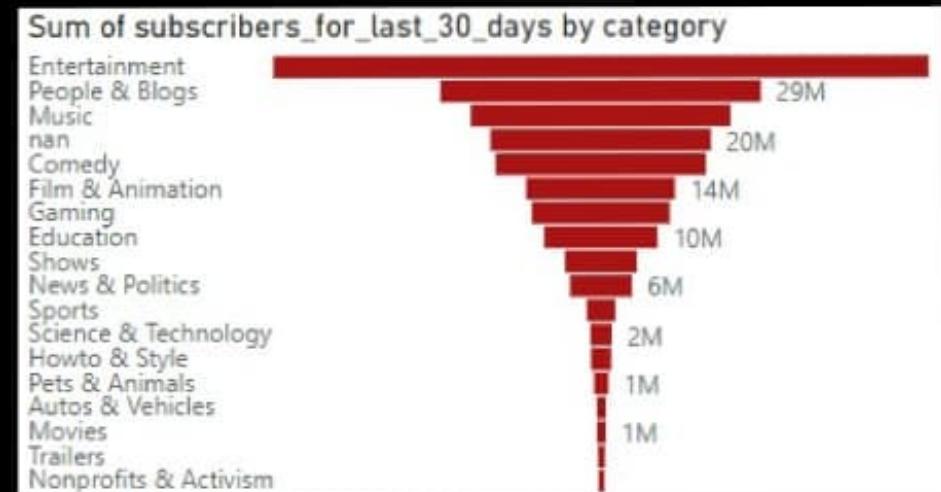
Sum of video_views_for_the_last_30_days

M. SANJANA

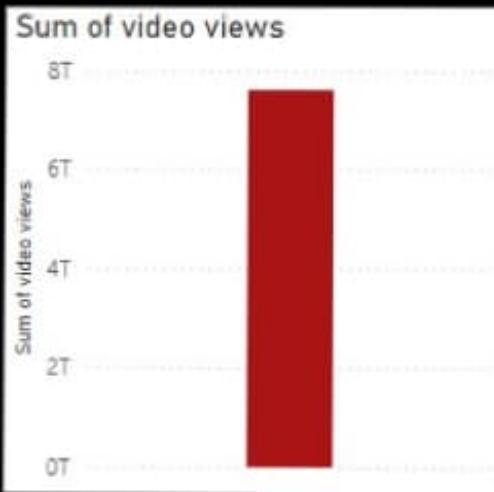
Sum of highest_yearly_earnings by Country



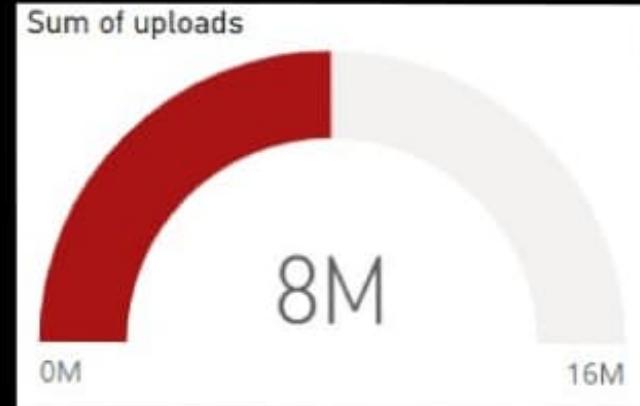
Sum of subscribers_for_last_30_days by category



Sum of video views

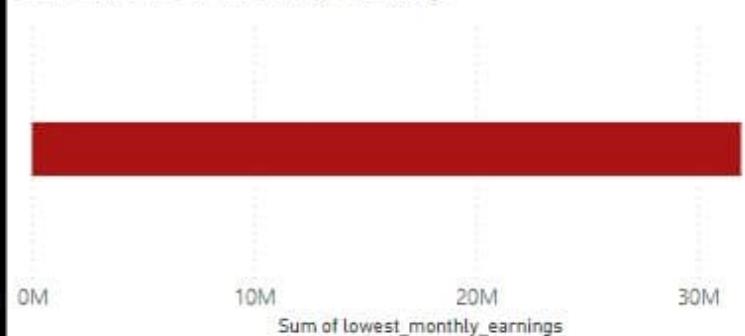


Sum of uploads

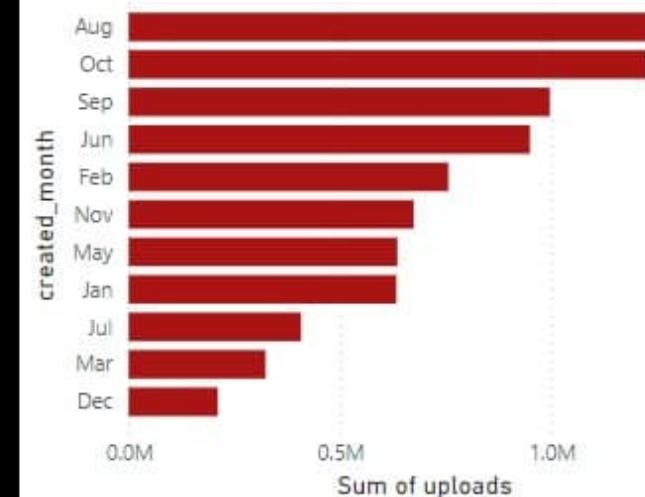


SHABISTA ALEEMA

Sum of lowest_monthly_earnings



Sum of uploads by created_month

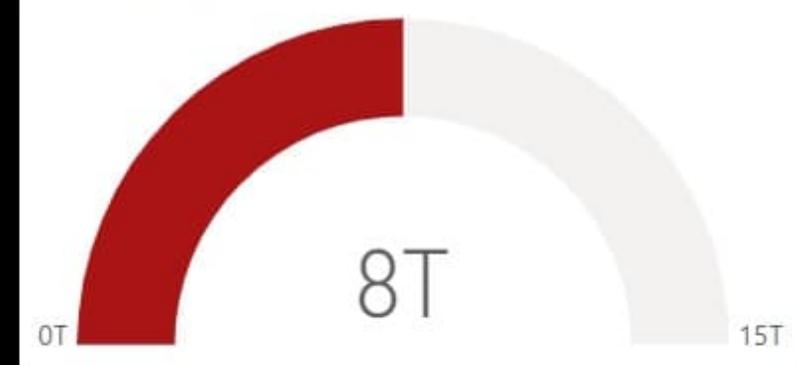


Sum of subscribers and Sum of uploads

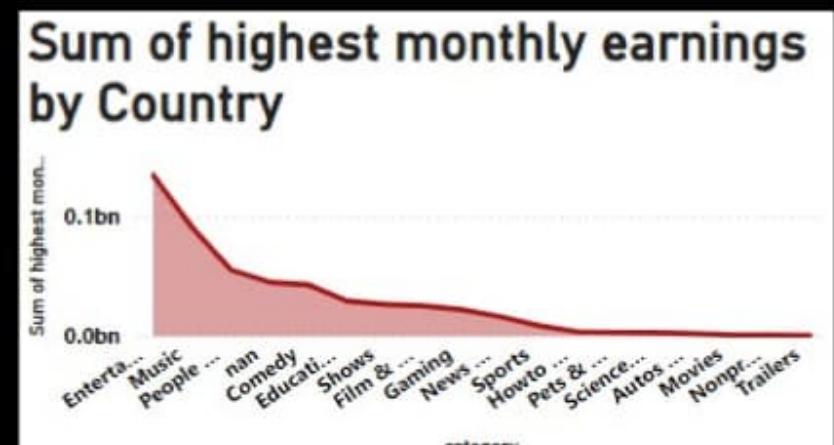
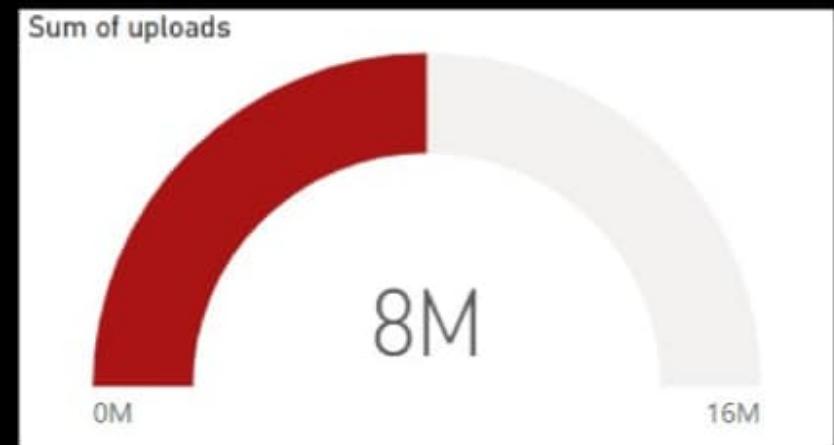
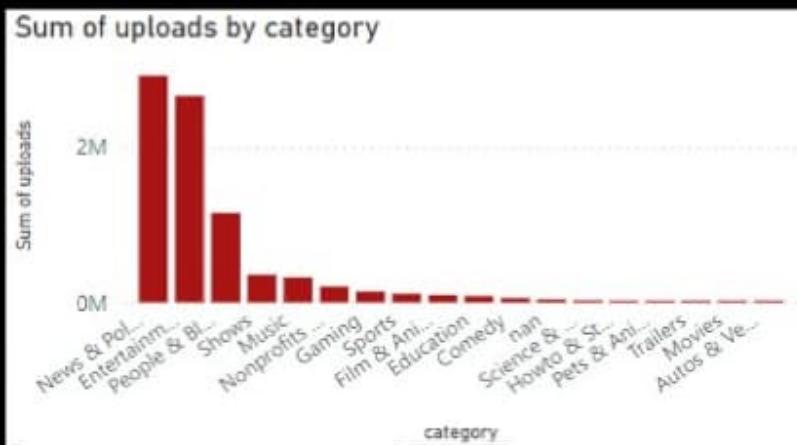
● Sum of subscribers ● Sum of uploads



Sum of video views

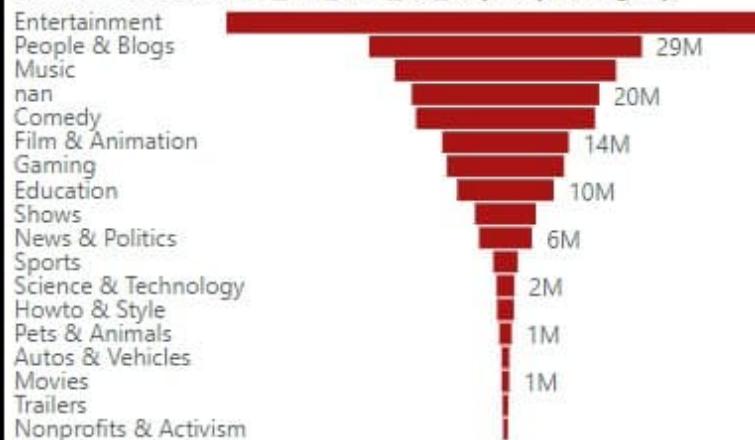


D. ANKITHA

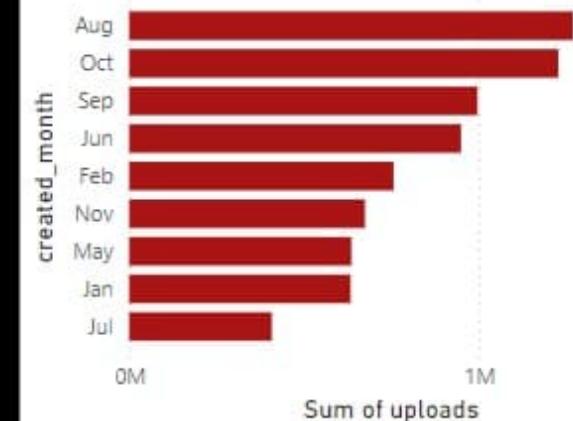


V. JAGANNATH

Sum of subscribers_for_last_30_days by category



Sum of uploads by created_month



144bn

Sum of video_views_for_the_last_30_days

Sum of video views



REPORT

Uploads are concentrated in Entertainment, News and Political categories. Entertainment channels generate the highest yearly earnings, with Music and People also performing well. Uploads peak in August and October , reflecting seasonal trends. Subscriber distribution is led by the United States, followed by India, the United Kingdom, and Canada, showing global reach.

PERFORMANCE TESTING

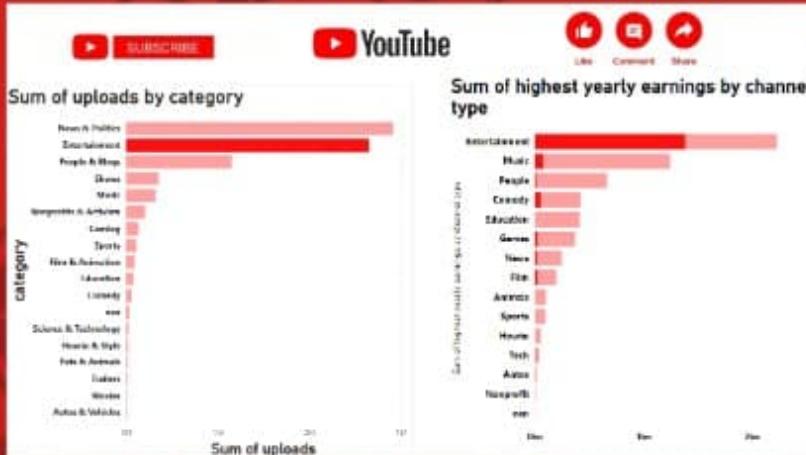
Global YouTube Statistics
Abbreviation	
category	
channel_type	
Σ channel_type_rank	
Country	
Σ country_rank	
Σ created_date	
created_month	
Σ created_year	
Σ highest_monthly_earnings	
Σ highest_yearly_earnings	
Latitude	
Longitude	
Σ lowest_monthly_earnings	
Σ lowest_yearly_earnings	
rank	
Σ subscribers	
Σ subscribers_for_the_last_30_days	
Title	
Σ uploads	
Σ video_views	
Σ video_views_for_the_last_30_days	
Σ video_views_rank	
Youtuber	
Collapse ^	

Amount of Data Loaded

"Amount of Data Loaded" refers to the quantity or volume of data that has been imported, retrieved, or loaded into a system, software application, database, or any other data storage or processing environment. It's a measure of how much data has been successfully processed and made available for analysis, manipulation, or use within the system

PERFORMANCE TESTING

SELECTED "CATEGORY" AS A FILTER



SELECTED "COUNTRY" AS A FILTER



Utilization of Filters

"Utilization of Filters" refers to the application or use of filters within a system, software application, or data processing pipeline to selectively extract, manipulate, or analyze data based on specified criteria or conditions. Filters are used to narrow down the scope of data, focusing only on the relevant

PERFORMANCE TESTING

NO OF VISUALIZATIONS / GRAPH

- 1) TOTAL NO OF UPLOADS BY CATEGORY
- 2) TOTAL HIGHEST YEARLY EARNINGS BY CHANNEL TYPE
- 3) TOTAL UPLOADS BY CREATED MONTH
- 4) TOTAL SUBSCRIBERS BY COUNTRY

THANK YOU

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
08.07.24 Day - 1 <u>Monday</u>	Introduction of data analytics & Power BI	Brief view about data analytics & power BI	Vaija
09.07.24 Day - 2 <u>Tuesday</u>	Understanding of data analytics, DA tools & technologies, DA applications, data analytics process, types of DA	Learned about data analytics & its basics	Vaija
10.07.24 Day - 3 <u>Wednesday</u>	Downloading of power BI tools, data visualizations & statistical analysis	Learned how to download power BI tools & how to apply DA in visualization & Statistical analysis	Vaija
11.07.24 Day - 4 <u>Thursday</u>	Over view of power BI tools features & applications	Learned about the brief view about power BI	Vaija
12.07.24 Day - 5 <u>Friday</u>	Live tutorial on setting up data in power BI	Learned about how to use power BI with setting up a data	Vaija
13.07.24 Day - 6 <u>Saturday</u>	Practicing the power BI tools	Practicing the power BI	Vaija

WEEKLY REPORT

WEEK - 1 (From Dt. 07.07.24 to Dt. 13.07.24....)

Objective of the Activity Done: To know about the application tools basis formulas to be used while analysing data from large data tools

Detailed Report:

The short term internship program for the course track "data analytics with power BI" commenced with a program orientation session aiming at providing a brief overview on the course, importance, job opportunities associated with & future scope etc. On Day 1 - Introduction to Data Analytics with power BI & overview of data analytics, including definition, importance, & real-world applications. On Day 2 - Deep into data analytics tools such as Tableau, Power BI & advanced analytics platforms. Data Analytics process in-depth at each step of the analytics process. Types of Data Analytics Detailed explanation of descriptive, diagnostic, predictive & prescriptive analytics with examples. On Day 3 - Introduction to Power BI downloading & installing power BI Desktop. Data visualization introducing to creating basic visualizations such as bar charts, line graphs, & pie charts. Statistical Analysis overview of basic statistical functions in Power BI, such as mean, median & standard functions in Power BI, & standard deviation. On Day 4 - Overview of Power BI tools & features & how to use power BI for creating interactive reports, sharing insights. On Day 5 - Live tutorial on setting up Data in Power BI. Step-by-step guidance on importing data, setting up data models, & creating initial reports. On Day 6 - Practicing Power BI tools hands-on practice with Power BI tools to reinforce learning.

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
15.07.24 Day - 1 Monday	Importing data from various sources into Power BI	By this week we learned how to import data in power BI	Vaija
16.07.24 Day - 2 Tuesday	Data cleaning & transformation using power query editor	Learned about how to clean data by using power query	Vaija
17.07.24 Day - 3 Wednesday	Fundamentals of Business intelligence - (Holiday of muharram) (Learned from youtube).	Learned about developing & publishing power BI reports	Vaija
18.07.24 Day - 4 Thursday	Fundamental of data analysis modeling in power BI	Learned about logical representation & how data are related within tools	Vaija
19.07.24 Day - 5 Friday	Creating relationship between data sets	Learned about connection between 2 or more different tables within data model	Vaija
20.07.24 Day - 6 Saturday	Practicing data cleaning in power BI desktop	Practicing data cleaning by using power BI	Vaija

WEEKLY REPORT

WEEK - 2 (From Dt. 15.07.24.... to Dt. 20.07.24....)

Objective of the Activity Done: Applying data in power BI for cleaning & transformation.

Detailed Report:

On Day 1. of second week importing data from various sources into Power BI & also understanding various data options in power BI by importing data from diverse source & dealing with basic import setting. Day 2. Data cleaning & transformation using power query . Edition for data transformation tasks . Practiced data cleaning techniques such as removing duplicates , filtering data , & transforming data types . Applied data transformation to prepare data for analysis . On Day 3. we learned about fundamentals of business intelligence which covered the foundation concept of BI & also explained the role of BI in decision making process & importance of data driven insights . On Day 4. fundamental of data modelling in power BI covered the topic such as tables , columns , measuring & calculated columns , discussed the basics of data modelling structured & their significance On Day 5. Learned how to create & manage relationship using primary & foreign keys . Explained the impact of relationship on data analysis & reporting . On Day 6. Applied various data cleaning techniques to real-world data set . Reviewed & refined data cleaning methods learned earlier in the week .

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
22.07.24 Day - 1 Monday	Introduction of data visualization, principles creating basic visualization in power BI	Learned about data visualization in power BI	Najma
23.07.24 Day - 2 Tuesday	Introduction of standard charts & advanced charts	Learned about different types of graphs	Najma
24.07.24 Day - 3 Wednesday	Live tutorial by setting up a data into data visualization & creating dash board	Learned about how to create dash board in power BI	Najma
25.07.24 Day - 4 Thursday	Introduction of DAX & its function	Learned about what is DAX, its major function	Najma
26.07.24 Day - 5 Friday	Live tutorial creating dash boards by using DAX formulas	Learned about creating dash board by DAX formulas.	Najma
27.07.24 Day - 6 Saturday	Practicing data visualization graphs.	Practicing data visualization graphs.	Najma

WEEKLY REPORT

WEEK-3 (From Dt: 23.07.24 to Dt: 27.07.24)

Objective of the Activity Done: Understand & apply data visualization & utilize DAX formula for enhance data analysis.

Detailed Report: On Day 1. of the third week introduction of data visualization & we understand the importance, key principles of effective data visualization. On Day 2. overview of standard charts (bar, column, line, pie, etc.) Introduction to advance charts (scatter plots, waterfall charts, heat maps, etc) also we understand when to use each type of chart & creating visualization using different standard chart. On Day 3. live tutorial of transforming data for visualization creating interactive dashboard best practices for dashboard design. On Day 4. Overview of DAX (Data Analysis Expressions) explained common functions provided examples of how to use DAX function for Data analysis & repaning. Discussed best practices for writing efficient DAX formulas. On Day 5. Demonstrated how to apply DAX formulas within Power BI to create dynamic dashboard. Participants followed along to incorporate DAX function into their dashboard for advanced calculation & data insights. On Day 6. Provided participant with practice dataset to create various types of visualization. Emphasized the application of both basic & advanced chart types, as well as the use of DAX functions.

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
29.07.24 Day - 1 Monday	Sharing & collaborating on reports using power BI service	Learned how to create institutional mail via power BI service	Vaij'a
30.07.24 Day - 2 Tuesday	Staying updated with the latest power BI feature, best practices for data analytics	Brachied the power BI & update with latest features	Vaij'a
31.07.24 Day - 3 Wednesday	Preparing for assessment test	Day 1 preparing for assessment test	Vaij'a
01.08.24 Day - 4 Thursday	Practicing for assessment test	Day 2 preparing for assessment test	Vaij'a
02.08.24 Day - 5 Friday	Assessment test	Performing the assessment	Vaij'a
03.08.24 Day - 6 Saturday	Discussion about project	conversation about the project with group.	Vaij'a

WEEKLY REPORT

WEEK - 4 (From Dt: 29.07.24... to Dt 03.08.24...)

Objective of the Activity Done: Update on Data analytics of Power BI Project process & performing assessment test.

Detailed Report:

On Day 1. of fourth week explored power BI service's feature for sharing & collaboration, including report publishing, setting permission & managing workspace.

Practiced using share option & collaboration tools within the Power BI service environment. Gained proficiency in sharing reports & dashboard. Identified best practices for effective collaboration within power BI service On Day 2.

Researched & compiled best practices for analysis, including data modeling & visualization techniques. Updated knowledge on the latest Power BI features. Developed a list of best practice to enhance data analysis efforts On Day 3.

Preparing for assessment test focused study sessions on key topics, using practiced exam & study guides. Outlined a study plan for the following day, addressing weaker areas.

On Day 4. Practicing for assessment test analyzed practices test result, revisited challenging topics & reinforced knowledge using additional resource gained confidence in key subject area On Day 5. Assessment test completed the assessment test, managing time effectively & applying learned knowledge. Successfully completed the assessment test On Day 6.

Prepared materials & reviewed project goals & outcomes developed a plan for addressing feedback & improving the project.

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
05/08/24 Day - 1 Monday	Selection of topic for short term internship	Selection of topic for the project	Vaijya
06/08/24 Day - 2 Tuesday	Data collecting & extraction from the data base	Collecting & evaluation of the data project	Vaijya
07/08/24 Day - 3 Wednesday	Data cleaning for visualization	Cleaning Data for project	Vaijya
08/08/24 Day - 4 Thursday	Preparing dashboard by using data visualization	Designing the Dashboard for the project	Vaijya
09/08/24 Day - 5 Friday	Preparing Dashboard by using Data visualization	Designing Dashboard for the project.	Vaijya
10/08/24 Day - 6 Saturday	Designing Report	Preparing report for the entire project.	Vaijya

WEEKLY REPORT

WEEK - 5 (From Dt. 08.08.24.... to Dt. 10.08.24.)

Objective of the Activity Done: Selection of the perfect topic for the project

Detailed Report:

On Day - 1 of the fifth week selection of topic for short term internship. Over the topic is evaluation of investment opportunities, analyzing of ~~Text~~ Analyzing YouTube Metrics with power BI.

On Day - 2 Data collecting & extraction from Database identified & accessed relevant database. Executed power queries to extract the required data. Organized data into a structured format for analysis. On Day - 3 Data cleaning for visualization addressed inaccuracies & inconsistencies in the data set. Handled missing values & outliers. On Day - 4 preparing dashboard by using data visualization, choose appropriate visualization tools. Designed initial layout & visual element. Implemented basic charts, graphs, tables. On Day - 5 Preparing dashboard by using Data visualization added advanced visual features & interactivity. Refined dashboard layout based on feedback. Conducted usability testing to ensure functionality. On Day - 6 Designed report compiled data & visualizations into a cohesive report. Drafted sections including report objectives, methodology, findings & conclusions. Finalized the design & format of the report.

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
12/08/24 Day - 1 Monday	Project video demonstration	Presenting the Project	Najia
13/08/24 Day - 2 Tuesday	Creating GitHub Account	Creating Account to team members in GitHub	Najia
14/08/24 Day - 3 Wednesday	Collaborating team members preparing report commencement	Collaborating team members with team leader account	Najia
15/08/24 Day - 4 Thursday	Assigning task to team members	Assigning work to every team member	Najia
16/08/24 Day - 5 Friday	Preparing report	Preparing report to end the project	Najia
17/08/24 Day - 6 Saturday	Finalizing the report	Submission of the report.	Najia

WEEKLY REPORT

WEEK - 6 (From Dt. 12.08.24. to Dt. 17.08.24.)

Objective of the Activity Done: Report Submission.

Detailed Report:

On Day 1 of the sixth week we have done project video demonstration presented an overview of the project scope

On Day 2 Creating GITHUB Account to all team members established a new repository for the project. Invited all team members to the repository & set appropriate permission. On Day 3 Collaborating with team members & preparing report commencement collaboratively drafted the initial outline for the report. On Day 4 Assigning tasks to team members clearly defined task & provided reports created, initial drafts of the reports.

On Day 5 Preparing reports created initial drafts of the reports content, including text, chart, & tables

On Day 6 Finalizing the reports compiled & reviewed the contributions from all team members prepared the final version of the report for submission.

CHAPTER 5: OUTCOMES DESCRIPTION

Describe the work environment you have experienced (in terms of people interactions, facilities available and maintenance, clarity of job roles, protocols, procedures, processes, discipline, time management, harmonious relationships, socialization, mutual support and teamwork, motivation, space and ventilation, etc.)

Description of work environment:

The internship at smartbridge has been a transformative experience, equipping me with practical skills in Data Analytics and a deep understanding of the role of Data analytics with power BI in the industry. The hands-on experience & exposure to real-world projects has not only sharpened my technical abilities but has also honed my communication skills and project management skills. The work environment fostered a collaborative atmosphere with clear task-roles, well-defined protocols & structured procedures. The facilities were equipped with necessary tools for data analysis. Team members exhibited mutual support & teamwork, contributing to a harmonious relationship. Overall, the internship provided a comprehensive experience in data analytics within a well-organized and supportive work environment.

Describe the real time technical skills you have acquired (in terms of the job-related skills and hands on experience)

Description of the technical skills Acquired.

- * Data Analysis: Proficiency in examining and interpreting complex datasets.
- * Statistical Analysis: Understanding and applying statistical methods to derive insights.
- * Data Visualization: Mastery in creating compelling visualizations for effective communication of data.
- * Analytics tools proficiency: Proficiency with web-based tools like MS Excel, Power BI, Google Colab for analytics & visualization.
- * Programming language: Knowledge & Expertise in Python programming language.
- * Visualization Generation: Skills in developing interactive dashboards, comprehensive reports, narrative stories in Cognos Analytics.
- * Problem solving: Developing solutions to challenges encountered during data analysis.
- * Data cleansing and Preprocessing: Proficiency in data cleansing & preparing data for analysis.

Describe the managerial skills you have acquired (in terms of planning, leadership, team work, behaviour, workmanship, productive use of time, weekly improvement in competencies, goal setting, decision making, performance analysis, etc.

Description of the Managerial skills Acquired.

- (*) Project Management: Coordinating tasks, setting goals & ensuring the timely completion of the data analytics project.
- (*) Team collaboration: Working effectively in a group setting, delegating tasks, & fostering a collaborative environment.
- (*) Leadership skills: Taking initiative, guiding the team, & making decisions to achieve project objectives.
- (*) Time management: Prioritizing tasks, Meeting deadlines, & efficiently allocating Resources.
- (*) Problem solving as a team: Addressing challenges collectively & finding solutions through group discussions & collaboration.
- (*) Adaptability: Being flexible w/ Adapting to changes in project scope or requirements.
- (*) Quality Assurance: Ensuring the accuracy & quality of the data analytics project deliverables produced by the team.
- (*) Feedback & Improvement: providing Constructive feedback to team members & actively participating in Continuous improvement processes.

Describe how you could improve your communication skills (in terms of improvement in oral communication, written communication, conversational abilities, confidence levels while communicating, anxiety management, understanding others, getting understood by others, extempore speech, ability to articulate the key points, closing the conversation, maintaining niceties and protocols, greeting, thanking and appreciating others, etc.,)

Description of the Communication Skills Acquired

- * Technical Communication: Effectively Conveying Complex data analytics Concepts & findings.
- * presentation skills : Creating & delivering engaging presentations to communicate insights, dashboard, Visualizations & projects.
- * Team Collaboration: Collaborating with team members to share information, discuss project progress & updates.
- * Written Communication: Crafting clear & concise report documentation and emails related to data analytics processes.
- * Conflict Resolution: Addressing & Resolving Conflicts within the team to maintain a positive & productive environment between team members.
- * Feedback Delivery: Providing constructive feedback to peers, mentors & trainees and receiving feedback, fostering a culture of continuous improvement.
- * Clarity in instructions: Clearly Communicating project tasks, goals & expectations, Roles to every team member.

Describe how could you could enhance your abilities in group discussions, participation in teams, contribution as a team member, leading a team/activity.

Reflecting on my experience in data analytics at Smartbridge inters, I've identified key areas for enhancing my abilities in group discussions, team participation and leadership. To improve my contributions in group discussions, I aim to actively listen to theirs, ask insightful questions and share my opinions, perspectives clearly & effectively. As a team member, I plan to strengthen collaboration by proactively offering support, leveraging my technical skills and embracing different view points of team members. Lastly to enhance my leadership capabilities I plan to focus on taking initiative, creating a positive team environment, and effectively co-ordinating team activities. Through these measures, I am committed to continuous growth and excellence in my role within the team.

Describe the technological developments you have observed and relevant to the subject area of training (focus on digital technologies relevant to your job role)

- Advance data connectivity and integration
 - Enhanced data sources.
 - Dataflow improvement.
- Improved data modeling and transformation.
 - Power Query enhancement.
 - Data modeling features.
- Advanced analytics and AI integration.
 - Built-in AI capabilities.
 - Q&A Features.
- Enhanced visualizations and view experience.
 - Custom visual and themes.
 - paginated reports.
- Collaboration and sharing features.
 - Power BI service enhancement
 - Data insights and alerts.
- Performance and scalability improvement.
 - enhanced performance
 - scalability option
- security and compliance enhancements.
 - Advanced security Features.