

Model Program Book



SHORT TERM INTERNSHIP (On-Site/Virtual)

Designed & Developed by

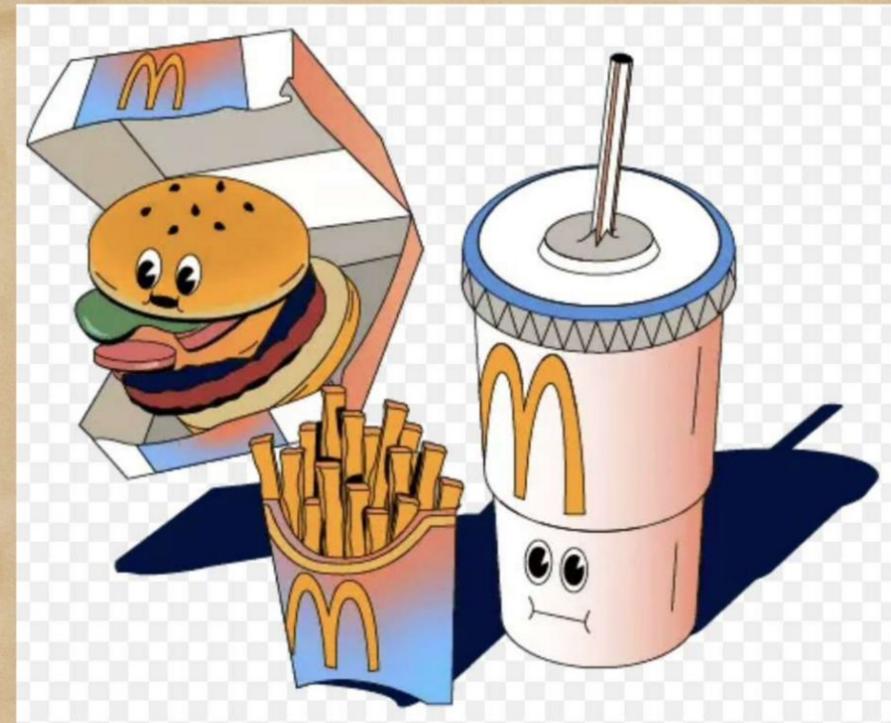


**ANDHRA PRADESH
STATE COUNCIL OF HIGHER EDUCATION**
(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)

ANALYZING MC DONALD'S

NUTRITION DATA SET
WITH POWER BI





PRESENTED BY:

TEAM LEADER: ♦ Vaishnavi

TEAM MEMBERS: ♦ Jyoshna

♦ Mahendra

♦ Lalitha

♦ Raihan

Acknowledgement

I would sincerely like to thank APSCHE for providing me with this short-term immersion internship which helped me gain practical experience and knowledge on Data Analytics.

I thank our respected principal sir Dr. G.S.K. Chakravarthy for giving me this wonderful opportunity.

I would also like to thank our Head of the Department Mr. N.K. Mahesh, Department of BBA, and our guide S. Sri Lakshmi for being a wonderful mentor throughout my project.

I thank almighty/god, My parents & my friends, 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 (E) Intern Organisation:

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

Learning objectives and outcomes:

- 1) Downloading of power BI
- 2) Data cleaning
- 3) Data pre-processing
- 4) Statistical Analysis
- 5) Data visualization

Summary of Internship Activities:

- 1) Attending live training sessions and project-mentoring sessions.
- 2) Selection of topic - "Analyzing McDonald's Nutrition with Power BI Insights". Gathering, cleansing and analysing its related data sets in Excel.
- 3) Team formation and assignment of tasks to team members.

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 & Academic. Smart Bridge partners with companies such as Google to offer virtual internships. The internships provide students with hand-on experience with the latest technologies and enable project-based learning.

Smart Bridge's flagship event is the "Summer Internship Program". The program develops students skills in emerging technologies.
1) Artificial Intelligence. 2) Machine Learning.
3) Internet of things.

Organization's objectives: Smart bridge main objective is to bridge the existing gaps between prevailing industry standards & what the academics offer to the graduate's while passing out of university.

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 APSCH smartinternz and enrolling for smartbridge's Data analytics course i.e live training sessions as per the pre-scheduled training calendar.
- 2) Participating weekly quiz and completing weekly assignments with respect to Data Analytics.
- 3) Team formation & selection of project topic - "Analyzing McDonald's Nutrition with PowerBI Insights."
- 4) Gathering, cleansing & Analyzing the Excel data sets of the project topic - "Analyzing MC Donald's nutrition with Power BI Insights."
- 5) Attending project- Mentoring sessions , Designing and Developing interactive Dashboards , Story, Report on the project topic using Power BI tool/Desktop.
- 6) Drafting a project video demonstration and preparation as final report.
- 7) Submission of team project via uploading the project files in GitHub Repository of the team.

DATA DOWNLOADING

kaggle McDonalds Nutrition Dataset https://www.kaggle.com/datasets/priyanshusethi/mcdonalds-nutrition-dataset

McDonalds Nutrition Dataset

McDonalds Menu with all nutrition facts grouped by type of menu

Data Card Code (11) Discussion (0) Suggestions (0)

About Dataset

I'm pretty sure we've all eaten something from the McDonalds menu and most of us have complained about the broken ice cream machines. This Dataset includes all major McDonalds menu items listed with their menu categories and nutritive facts. Now if you want to analyze the quality of food or perform classification of menu types , It's all upto you. I have made a lot of effort to not only manually group the menu items but also included my personal Indian special McAlloo Tikki.

Dietary habits have been exponentially worsening for a majority of people these days. A proper analysis of nutrition data and reports would be super helpful in spreading awareness about what people are actually consuming disguised as a tempting burger.

Usability 10.00

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Expected update frequency Never

Tags

Food Exploratory Data Analysis Restaurants Nutrition Health and Fitness

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DATA SET

item	serve size	calories	protien	total fat	sat fat	trans fat	cholesterol	carbs	sugar	added sugar	sodium	menu
2 piece Chicken StripsÂ	58Â	164	10.17	12.38	11.41	0.09	30.10	2.68	0.72	0.00	477.22	regular
3 piece Chicken StripsÂ	Â 87Â	246	15.26	18.57	17.12	75.26	45.15	4.02	0.39	0.00	715.83	regular
4 piece Chicken McNuggetsÂ	64	169	10.03	9.54	4.45	0.10	24.66	10.50	0.72	0.00	313.25	regular
5 piece Chicken StripsÂ	Â 145Â	411	25.43	28.54	0.15	0.08	6.70	0.73	0.55	0.00	1,193.05	regular
6 piece Chicken McNuggetsÂ	96	254	15.04	14.30	6.68	0.14	36.99	15.74	0.29	0.00	469.87	regular
9 piece Chicken McNuggetsÂ	144Â	381	22.56	21.46	10.02	0.06	55.48	23.62	0.44	0.00	704.81	regular
Â Chicken Maharaja MacÂ	Â 296Â	689	34.00	36.69	10.33	0.25	81.49	55.39	7.48	6.14	1,854.71	regular
Â Flat White (S)Â	266.5Â	166.99	8.06	9.60	7.06	0.27	29.07	14.16	11.47	0.00	123.84	mccafe
Â L1 CoffeeÂ	200	7	0.00	0.00	0.00	0.08	0.00	1.70	0.00	0.00	0.00	regular
Â Large FriesÂ	Â 154Â	449	6.76	20.77	9.95	0.10	1.54	54.16	0.77	0.00	306.29	regular
Â Latte (L) p	375Â	232.2	11.14	12.82	9.43	0.38	38.95	20.77	15.40	0.00	165.36	mccafe
Â Mc Spicy Chicken BurgerÂ	186Â	451	21.46	19.36	7.63	0.18	66.04	46.08	2.52	4.49	928.52	regular
Â Spicy Chicken WrapÂ	Â 257Â	567	23.74	26.89	12.54	0.27	87.63	57.06	8.92	1.08	1,152.38	regular
American Chicken BurgerÂ	165Â	446	20.29	22.94	7.28	0.15	47.63	38.54	5.08	4.76	1,132.30	regular
American Mud Pie Shake	317	398.19	5.67	12.77	11.38	0.20	10.89	64.75	53.40	34.35	185.73	mccafe
American Triple Cheese Chicken	195Â	457.94	24.43	22.65	11.56	0.17	71.23	37.45	7.64	3.84	1,396.17	gourmet
American Triple Cheese Veg	Â 207Â	Â 524.69Â	19.54	23.16	14.78	0.19	48.74	56.24	7.90	3.84	1,174.27	gourmet
American Veg Burger	177Â	512	15.30	23.45	10.51	0.17	25.24	56.96	7.85	4.76	1,051.24	regular
Americano (L)	455	26.71	1.09	0.06	0.06	0.06	0.55	5.30	0.28	0.00	0.65	mccafe
Americano (R)	347.5	23.07	0.94	0.05	0.05	0.05	0.48	4.57	0.24	0.00	0.57	mccafe
Americano (S)	276.5	12.87	0.52	0.03	0.03	0.03	0.27	2.55	0.13	0.00	0.32	mccafe
BabycinoÂ	127Â	143.5	3.87	4.38	3.08	0.15	12.27	22.85	18.53	9.21	96.44	mccafe
BBQ dipping sauce	25	54.89	0.26	0.49	0.15	0.04	0.25	12.36	7.65	2.50	113.23	condiments
Cappuccino (L)	355	219.36	10.51	12.03	8.85	0.36	36.55	19.81	14.45	0.00	155.06	mccafe
Cappuccino (R)	297.5	183.61	8.79	10.02	7.37	0.30	30.48	16.67	12.05	0.00	129.24	mccafe
Cappuccino (S)	201.5	125.25	6.02	7.01	5.15	0.20	21.27	11.02	8.40	0.00	90.39	mccafe
Chocolate Lava Burger	Â 240Â	Â 671.06Â	11.00	22.18	11.12	0.21	22.21	74.25	16.27	10.01	1,152.00	gourmet

UNDERSTANDING THE DATA

Data contains all the Nutrition information regarding the columns described in dataset.

Column description of the dataset:-

- 1.ITEM: Number of items present in the menu.
- 2.PROTEINS: Number of proteins present in each item.
- 3.CALORIES: Number of calories present in each item.
- 4.CARBS: Number of carbs present in each item.
- 5.CHOLESTROL: Amount of cholesterol present in each item.
- 6.SODIUM: Amount of sodium present in each item.
- 7.FATS: Fats include sat fat, trans fat & total fat.
- 8.Total amount of sugar and added sugar in each item.

DATA LOADING

The screenshot shows the Power BI Desktop interface with the Power Query Editor open. The title bar reads "Untitled - Power BI Desktop". The ribbon menu has "Home" selected. The main area displays a table titled "mcdonalds" with 14 columns and 141 rows. The columns are labeled: Item, servsize, calories, and portion. The first few rows of data are:

	Item	servsize	calories	portion
1	McVeggie Burger	168g	402	10.1
2	McAloo Tikki Burger	146g	339	8
3	McSpicy™ Panier Burger	199g	652	20.2
4	Spicy Pioneer Wrap	250g	674	20.5
5	American Veg Burger	177g	512	15
6	Veg Malaiya Mac	306	832	24.1
7	Green Chilli Aloo Naan p	122g	256	7.5
8	Pizza Puff	87g	228	5.4
9	Mc chicken Burger	175g	400	15.6
10	FILLET O FISH Burger	126g	248	15.4
11	Mc Spicy Chicken Burger	186g	451	21.4
12	Spicy Chicken Wrap	125g	557	23.7
13	Chicken Maharaja Mac	296g	689	1
14	American Chicken Burger	165g	446	20.2
15	Chicken kabab burger	188g	357	8.4
16	Green Chilli Kebab naan	138	230	5.6
17	Mc Egg Masala Burger	126g	290	12.4
18	Mc Egg Burger for Happy Meal	123	282	12.2
19	Ghee Rice with Mc Spicy Fried Chicken 1 pc	325	720	26.5
20	McSpicy Fried Chicken 1 pc	115	248	17.1
21	4 piece Chicken McNuggets	64	169	10.0

The "APPLIED STEPS" pane on the right shows the step "Changed type" under the "Promoted Headers" section. The status bar at the bottom indicates "PREVIEW DOWNLOADED AT 11:52".

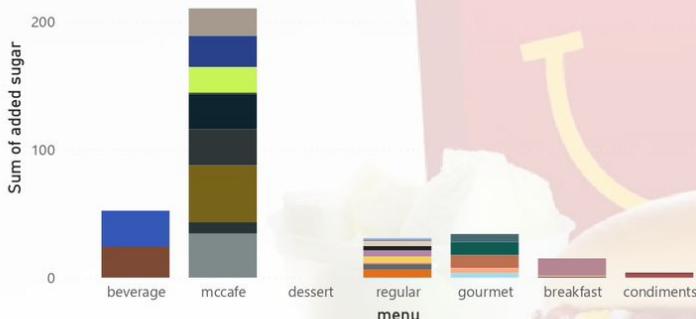
DATA CLEANING

item	serve size	calories	protien	total fat	sat fat	trans fat	cholesterol	carbs	sugar	added sugar	sodium	menu	QUALITY
2 piece Chicken StripsÂ	58Â	164	10.17	12.38	11.41	0.09	30.10	2.68	0.72	0.00	477.22	regular	GOOD
3 piece Chicken StripsÂ	Â 87Â	246	15.26	18.57	17.12	75.26	45.15	4.02	0.39	0.00	715.83	regular	GOOD
4 piece Chicken McNuggetsÂ	64	169	10.03	9.54	4.45	0.10	24.66	10.50	0.72	0.00	313.25	regular	GOOD
5 piece Chicken StripsÂ	Â 145Â	411	25.43	28.54	0.15	0.08	6.70	0.73	0.55	0.00	1,193.05	regular	GOOD
6 piece Chicken McNuggetsÂ	96	254	15.04	14.30	6.68	0.14	36.99	15.74	0.29	0.00	469.87	regular	GOOD
9 piece Chicken McNuggetsÂ	144Â	381	22.56	21.46	10.02	0.06	55.48	23.62	0.44	0.00	704.81	regular	GOOD
Â Chicken Maharaja MacÂ	Â 296Â	689	34.00	36.69	10.33	0.25	81.49	55.39	7.48	6.14	1,854.71	regular	GOOD
Â Flat White (S)Â	266.5Â	166.99	8.06	9.60	7.06	0.27	29.07	14.16	11.47	0.00	123.84	mccafe	GOOD
Â L1 CoffeeÂ	200	7	0.00	0.00	0.00	0.08	0.00	1.70	0.00	0.00	0.00	regular	BAD
Â Large FriesÂ	Â 154Â	449	6.76	20.77	9.95	0.10	1.54	54.16	0.77	0.00	306.29	regular	GOOD
Â Latte (L) p	375Â	232.2	11.14	12.82	9.43	0.38	38.95	20.77	15.40	0.00	165.36	mccafe	GOOD
Â Mc Spicy Chicken BurgerÂ	186Â	451	21.46	19.36	7.63	0.18	66.04	46.08	2.52	4.49	928.52	regular	GOOD
Â Spicy Chicken WrapÂ	Â 257Â	567	23.74	26.89	12.54	0.27	87.63	57.06	8.92	1.08	1,152.38	regular	GOOD
American Chicken BurgerÂ	165Â	446	20.29	22.94	7.28	0.15	47.63	38.54	5.08	4.76	1,132.30	regular	GOOD
American Mud Pie Shake	317	398.19	5.67	12.77	11.38	0.20	10.89	64.75	53.40	34.35	185.73	mccafe	GOOD
American Triple Cheese Chicken	195Â	457.94	24.43	22.65	11.56	0.17	71.23	37.45	7.64	3.84	1,396.17	gourmet	GOOD
American Triple Cheese Veg	Â 207Â	Â 524.69Â	19.54	23.16	14.78	0.19	48.74	56.24	7.90	3.84	1,174.27	gourmet	GOOD
American Veg Burger	177Â	512	15.30	23.45	10.51	0.17	25.24	56.96	7.85	4.76	1,051.24	regular	GOOD
Americano (L)	455	26.71	1.09	0.06	0.06	0.06	0.55	5.30	0.28	0.00	0.65	mccafe	BAD
Americano (R)	347.5	23.07	0.94	0.05	0.05	0.05	0.48	4.57	0.24	0.00	0.57	mccafe	BAD
Americano (S)	276.5	12.87	0.52	0.03	0.03	0.03	0.27	2.55	0.13	0.00	0.32	mccafe	BAD
BabycinoÂ	127Â	143.5	3.87	4.38	3.08	0.15	12.27	22.85	18.53	9.21	96.44	mccafe	BAD
BBQ dipping sauce	25	54.89	0.26	0.49	0.15	0.04	0.25	12.36	7.65	2.50	113.23	condiments	BAD
Cappuccino (L)	355	219.36	10.51	12.03	8.85	0.36	36.55	19.81	14.45	0.00	155.06	mccafe	GOOD

DATA VISUALIZATION

Sum of added sugar by menu and item

item ● 2 piece ... ● 3 piece ... ● 4 piece ... ● 5 piece ... ● 6 piece ... ● 9 piece ... ● Chick...

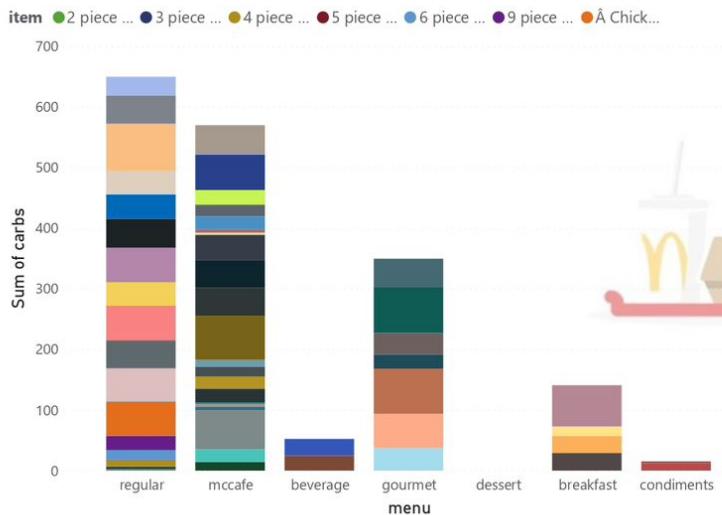


Count of calories by menu and item

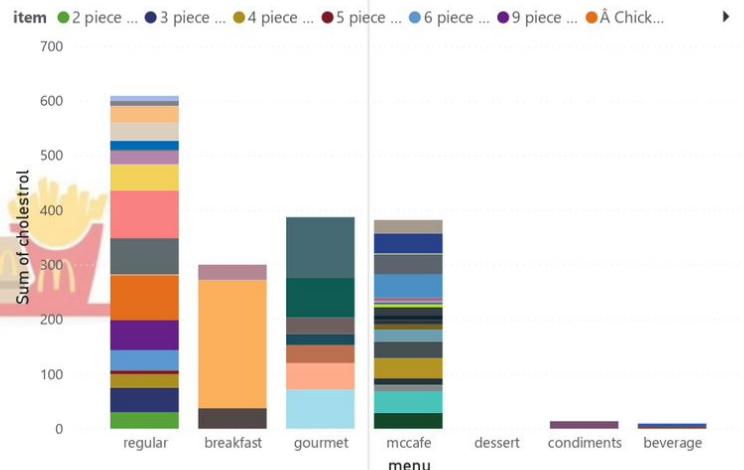
item ● 2 piece ... ● 3 piece ... ● 4 piece ... ● 5 piece ... ● 6 piece ... ● 9 piece ... ● Chick...



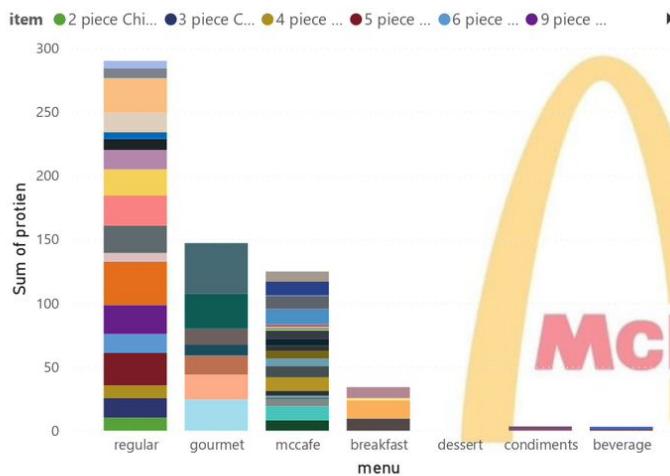
Sum of carbs by menu and item



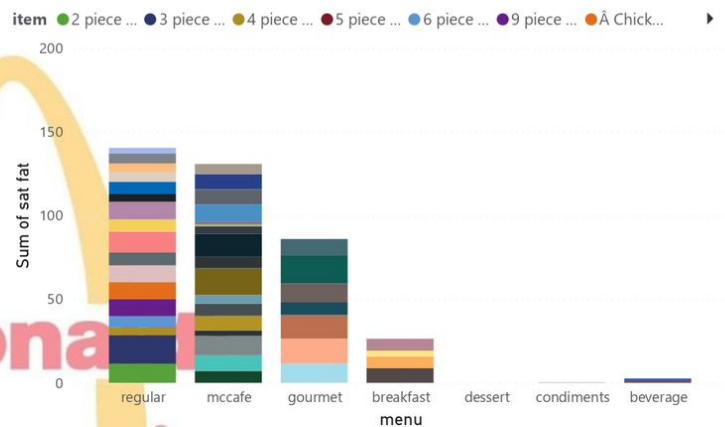
Sum of cholesterol by menu and item

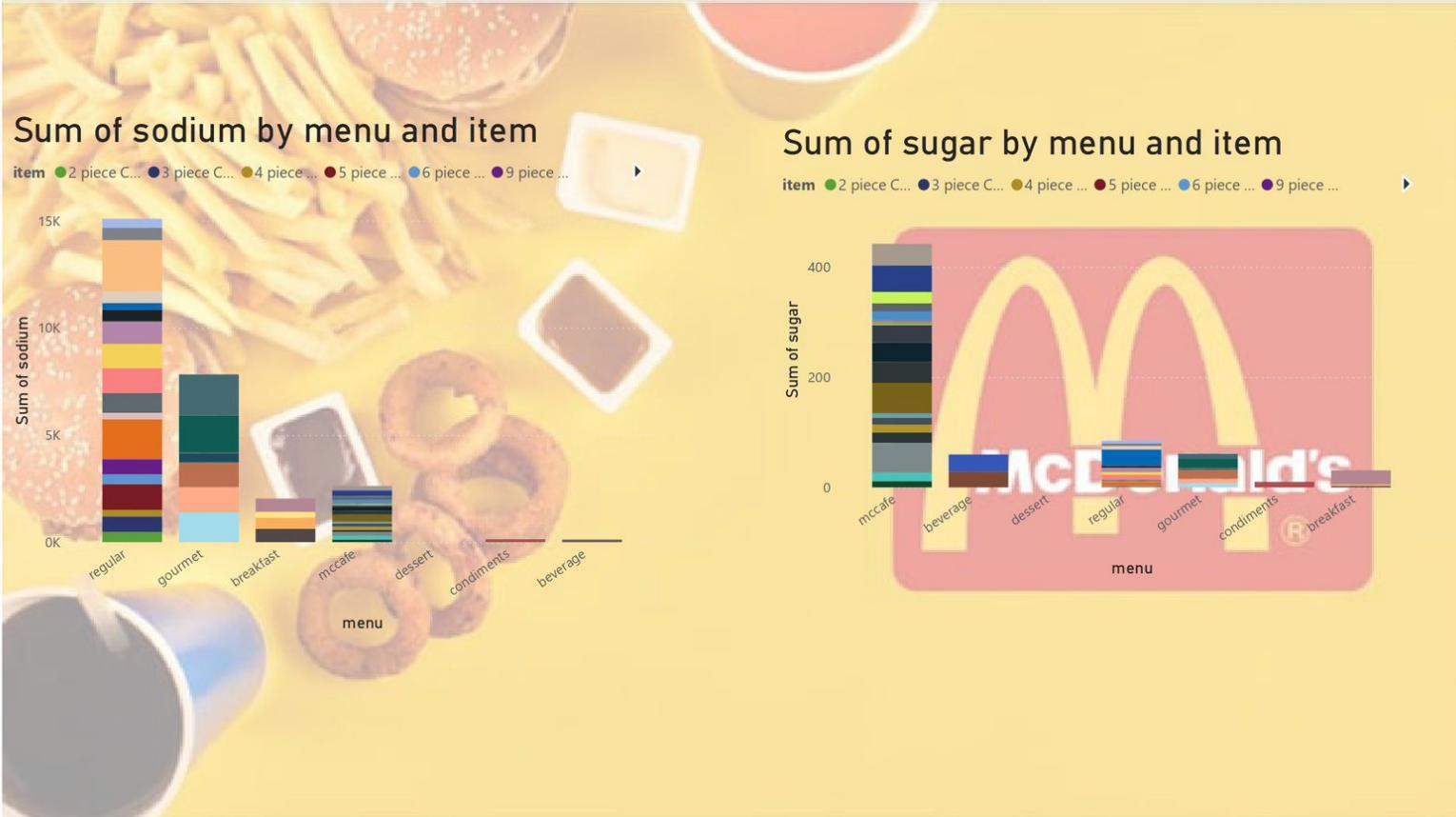


Sum of protein by menu and item



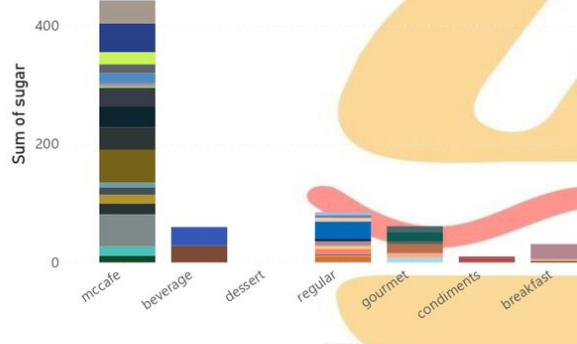
Sum of sat fat by menu and item





Sum of sugar by menu and item

item ● 2 piece ... ● 3 piece ... ● 4 piece ... ● 5 piece ... ● 6 piece ... ● 9 piece ... ▶



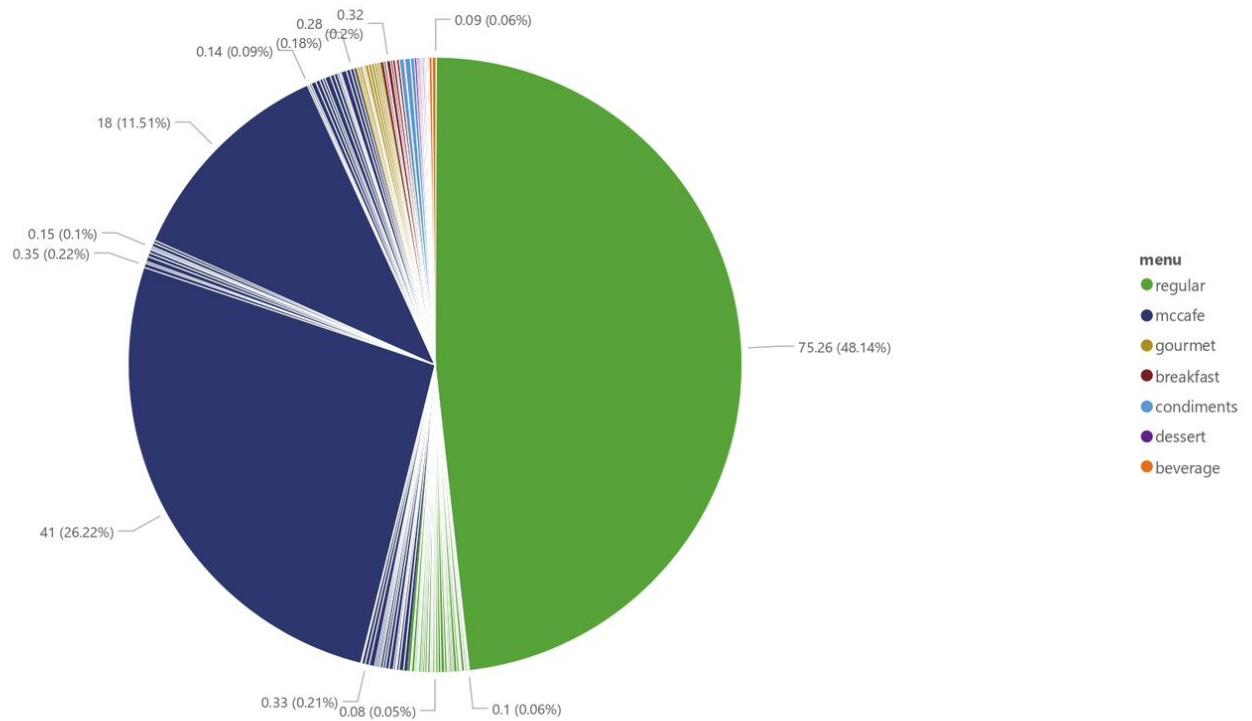
Sum of total fat by menu and item

item ● 2 piece ... ● 3 piece ... ● 4 piece ... ● 5 piece ... ● 6 piece ... ● 9 piece ... ● A Chick... ▶

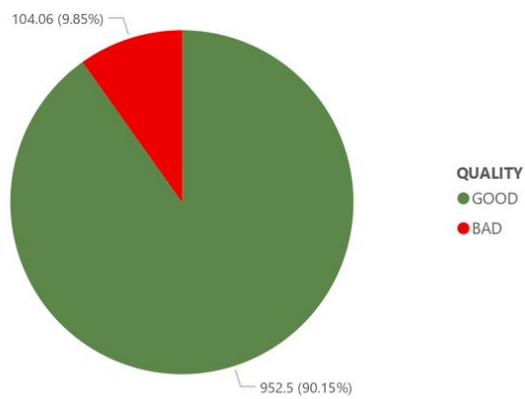


McDonald's®

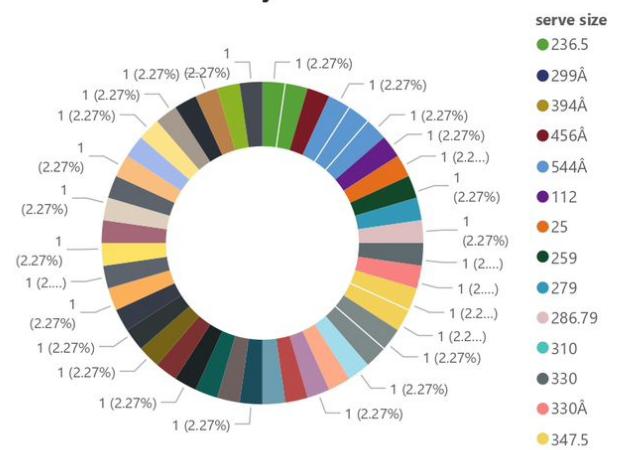
Sum of trans fat by menu and item



Sum of protien by QUALITY



Count of menu by serve size and item



AMOUNT OF DATA LOADED

Data »

Search

mcDonaldData

- \sum addedsugar
- calories
- \sum carbs
- \sum cholesterol
- item
- menu
- \sum protein
- QUALITY
- \sum satfat
- servesize
- \sum sodium
- \sum sugar
- \sum totalfat
- \sum transfat

UTILIZATION OF FILTERS



NO. OF CALCULATION FEILDS

The screenshot shows the Power BI Desktop interface with the 'Power Query Editor' open. A modal dialog box titled 'Add Conditional Column' is centered on the screen. The dialog box contains the following information:

- New column name: QUALITY
- Column Name: protein
- Operator: is greater than
- Value: 125
- Output: GOOD
- Else clause: 125 + BAD

The background shows the Power Query Editor with a table named 'modonalldata' containing 13 columns and 141 rows. The preview pane at the bottom right shows the first few rows of the data.

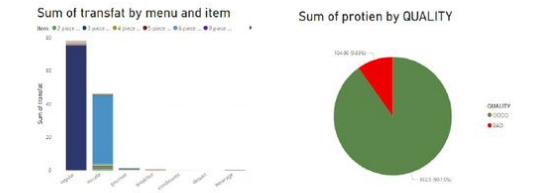
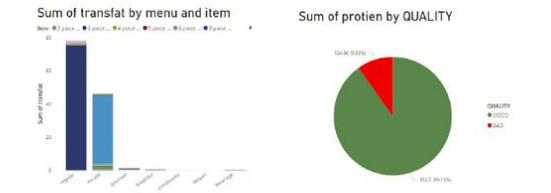
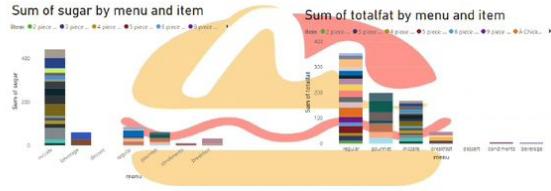
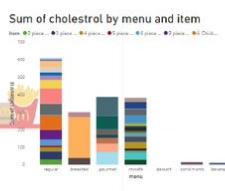
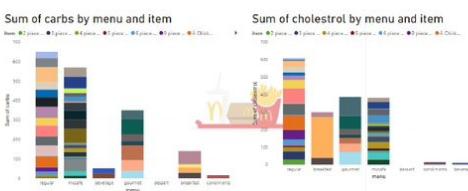
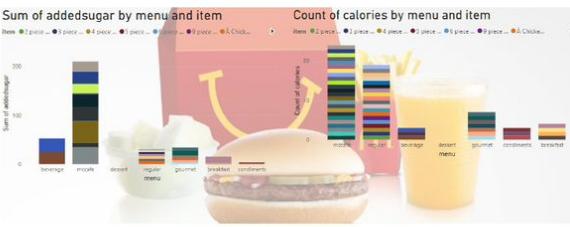
NO. OF VISUALIZATIONS/GRAPHS

- 1.** Sum of added sugar present in each item.
- 2.** Number of calories present in each item.
- 3.** Sum of protein present in each item.
- 4.** Amount of satfat present in each item.
- 5.** Sum of carbs by menu and item.
- 6.** Sum of cholesterol by menu and item.
- 7.** Sum of sodium by menu and item.
- 8.** Sum of sugar by menu and item.
- 9.** Sum of sugar by menu and item.
- 10.** Sum of total fat by menu and item.
- 11.** Sum of transfat by menu and item.
- 12.** Sum of protein by quality.
- 13.** Count of menu by serve size and item.

REPORT

141

Count of item



7

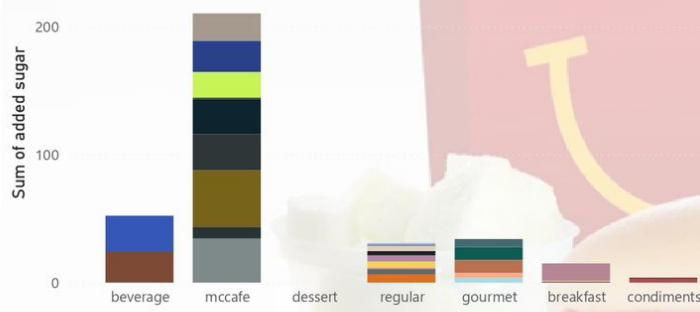
Count of menu



K.VAISHNAVI

Sum of added sugar by menu and item

item ● 2 piece ... ● 3 piece ... ● 4 piece ... ● 5 piece ... ● 6 piece ... ● 9 piece ... ● Chick...



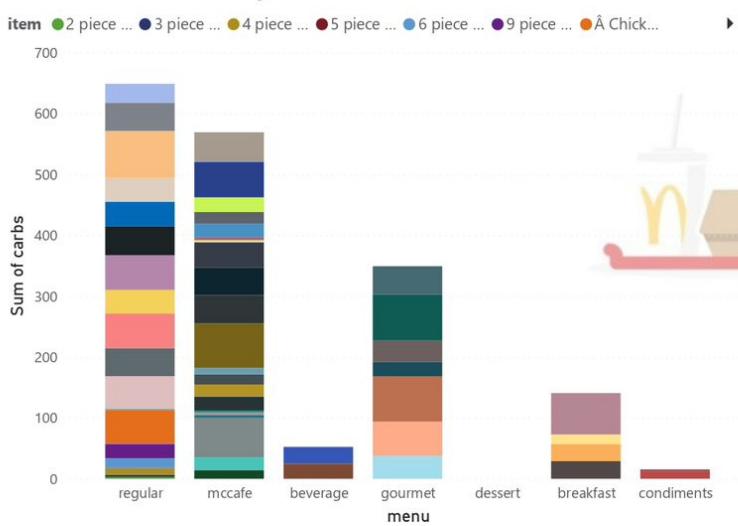
Count of calories by menu and item

item ● 2 piece ... ● 3 piece ... ● 4 piece ... ● 5 piece ... ● 6 piece ... ● 9 piece ... ● Chick...

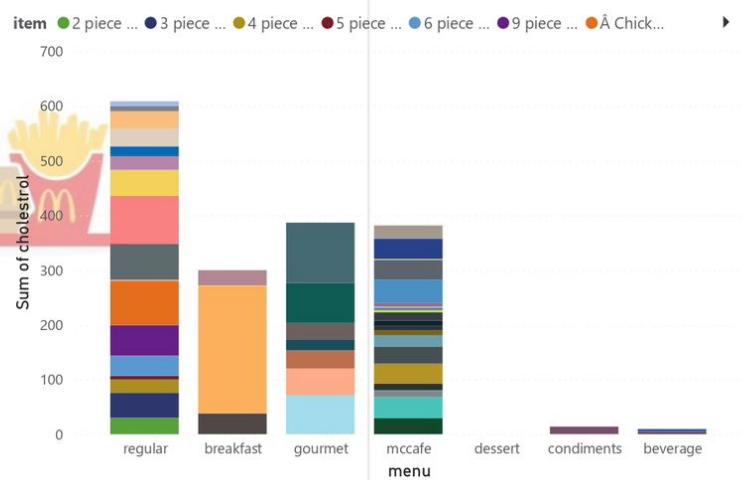


RAIHAN MOHAMMED HUSSAIN

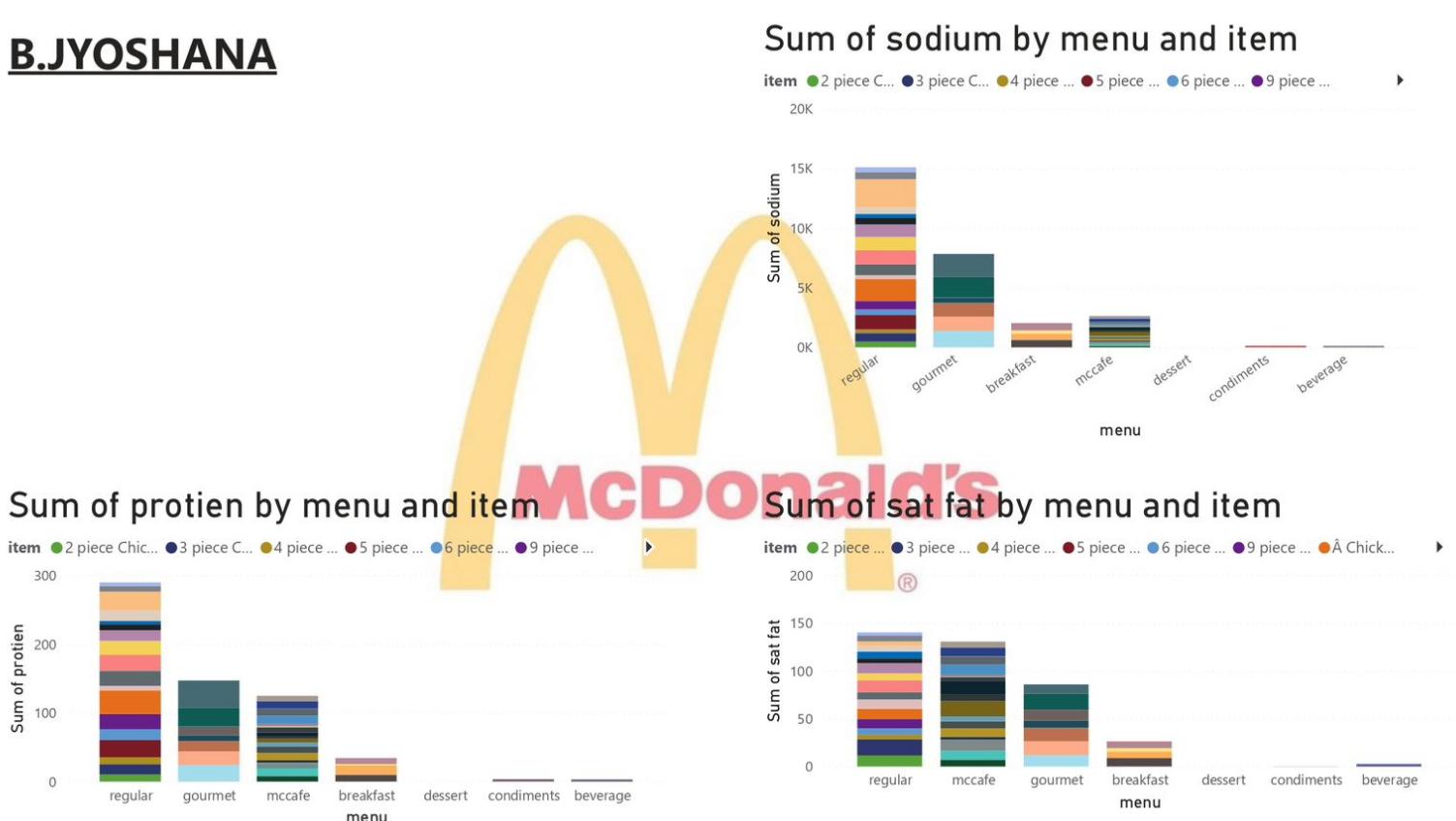
Sum of carbs by menu and item



Sum of cholesterol by menu and item

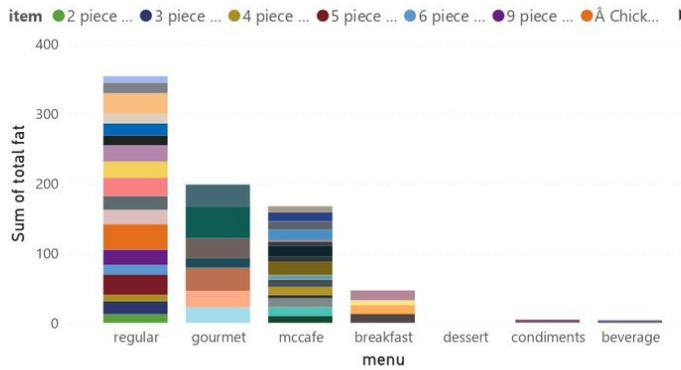


B.JYOSHANA

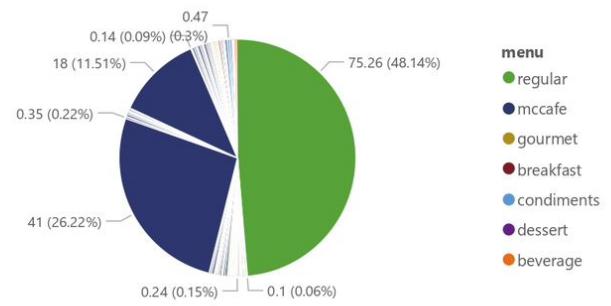


M.MAHENDRA KUMAR

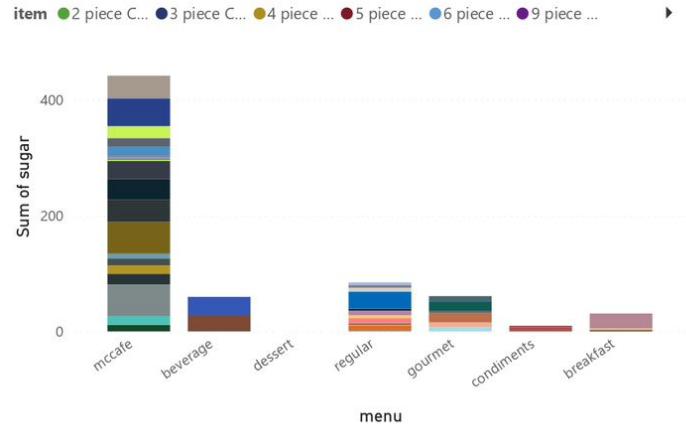
Sum of total fat by menu and item



Sum of trans fat by menu and item

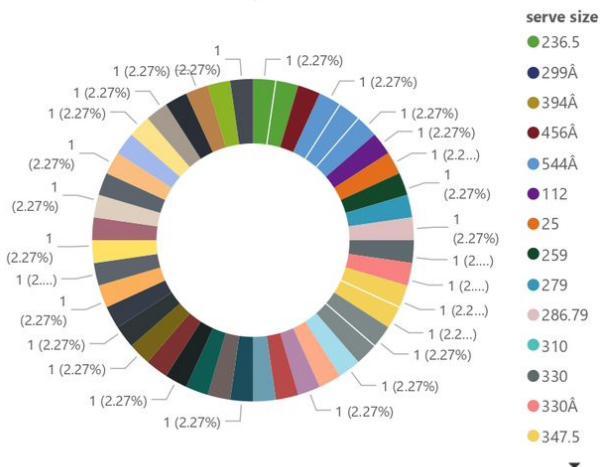


Sum of sugar by menu and item

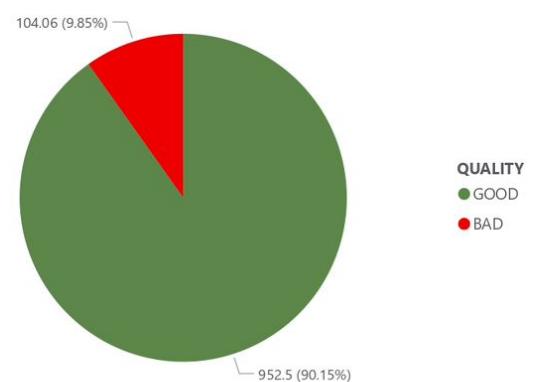


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Count of menu by serve size and item



Sum of protien by QUALITY



ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 08-07-2024 Monday	Introduction to Data analytics and Power BI	Brief explanation about data analytics and Power BI	S. O. Ganesha
Day - 2 09-07-2024 Tuesday	Data analytics tools and technologies, Data analytics process	Basis about data analytics and tools used to data analytics	S. O. Ganesha
Day - 3 10-07-2024 Wednesday	Data visualization and statistical analysis	Detailed explanation about applying data analytics in visualization & statistical analysis	S. O. Ganesha
Day - 4 11-07-2024 Thursday	Downloading of power BI tools and overview of Power BI tools and its features and Applications	Understood and learned about Power BI	S. O. Ganesha
Day - 5 12-07-2024 Friday	Live session on setting up data in power BI	Learned about setting up a data in power BI	S. O. Ganesha
Day - 6 13-07-2024 Saturday	Practicing the power-BI tools and revising the previous sessions	Practicing the power BI tools & revising the previous sessions	S. O. Ganesha

WEEKLY REPORT

WEEK - 1 (From Dt. 08.07.24. to Dt. 13.07.24.)

Objective of the Activity Done: To know about the application tools and basic formulas for analysing data from large data base

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, agenda etc; and overview of data analytics, including definitions, importance & real-world applications. Deep dive in data analytics Tools and Technologies detailed review of tools such as Tableau, power BI and advanced analytics platforms. Downloading and installing power BI desktop. Data visualization - Introduction to creating basic visualization such as bar charts, line graphs and pie charts. Statistical Analysis - Overview of basic statistical functions in power BI, such as Mean, Median and Standard deviation. Power BI Tools and Features and how to use power BI for creating interactive reports, sharing insights. Live tutorial on setting up data in power BI - step-by-step guidance on importing data, setting up models, creating initial reports. Practicing power BI tools hands-on practice with power BI tools to reinforce learning.

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date 15-07-2024 Monday	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 15-07-2024 Monday	I learned how to import data into Power BI	Importing data into power BI	Sri Gurukumar
Day - 2 16-07-2024 Tuesday	Learned how to clean data using Power query	Data cleaning	Sri Gurukumar
Day - 3 17-07-2024 Wednesday	Power BI fundamentals and data modelling notes reading & revision of data cleaning(Revised)	fundamentals of BI and data modelling in power BI (Revised)	Sri Gurukumar
Day - 4 18-07-2024 Thursday	practicals of data modelling & how data are related within tools	fundamentals of BI & data modelling practicals	Sri Gurukumar
Day - 5 19-07-2024 Friday	Learned about connections between 2 or more different tables within data modelling	Creating relationships between data sets	Sri Gurukumar
Day - 6 20-07-2024 Saturday	practical tools and Connections between 2 or more different tools	overview and practice of data modelling	Sri Gurukumar

WEEKLY REPORT

WEEK - 2 (From Dt. 15/07/24 to Dt 20/07/24)

Objective of the Activity Done: Learned about data transformation of data and data modelling.

Detailed Report:

The second week of short term internship commenced with importing data from various sources into power BI. After importing data from various sources I learned how to clean that data using power query in power BI desktop. Then, I learned introduction to power query editor and tasks like data transformation, as third day of this week was declared as holiday so I have practiced tasks like importing data, cleaning and transforming data using power query editor and read the fundamentals of BI and data modelling.

Then I learned about the tools used for data modeling and their uses then further I learned how to connect two tables using primary and foreign key of the table connect two tables using relations.

Then, I practiced data cleaning and transforming and data modeling on the imported data.

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 22-07-2024 Monday	Introduction of data visualization, principles, creating basic visualizations in Power BI	Learned about data visualization in power BI	Sri. Laushmi
Day - 2 23-07-2024 Tuesday	Introduction of standard charts and Advanced charts	Learned about different types of graphs	Sri. Laushmi
Day - 3 24-07-2024 Wednesday	Live tutorial by setting up a data into data visualization & creating dash boards	Learned about how to create dash boards in power BI	Sri. Laushmi
Day - 4 25-07-2024 Thursday	Introduction of DAX and its functions	Learned about what is DAX and its major functions	Sri. Laushmi
Day - 5 26-07-2024 Friday	Live tutorial creating dash boards by using DAX formulas	Learned about creating dash boards by DAX formulas	Sri. Laushmi
Day - 6 27-07-2024 Saturday	practicing data visualization graphs	practicing data visualization graphs	Sri. Laushmi

WEEKLY REPORT
WEEK - 3 (From Dt. 22/07/24 to Dt. 27/07/24)

Objective of the Activity Done: Learned about data visualization and principles of effective data visualization.

Detailed Report:

The Third week of short term internship commenced with the introduction of data visualization and we understand the importance, key principles of effective data visualization. I have learned about different types of graphs and overview of standard charts (scatter plots, waterfall charts, heat maps, etc) & when to use each type of chart and creating visualizations using different standard charts.

Learned about live tutorial of transforming data for visualization; creating interactive dashboards best practices for dashboard design. An overview of DAX (Data Analysis Expressions) explored common functions provided examples of how to use DAX functions for data analysis & reporting.

Learned about how to apply DAX formulas within power BI to create dynamic dashboards. provided participants with practice designs, datasets to create various types of visualizations. Emphasized the application of both basic & advanced chart types & DAX functions. practiced the data visualization graphs.

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 29-07-2024 Monday	Sharing and collaborating on reports using power bi service	Learned how to create institutional mail for power bi service	Sr.0 [Signature]
Day - 2 30-07-2024 Tuesday	Staying updated with the latest power bi features, best practices for data analytics	Practice the power bi and updates with latest features	Sr.0 [Signature]
Day - 3 31-07-2024 Wednesday	Preparing for assessment test	Day 1- preparation for assessment test	Sr.0 [Signature]
Day - 4 01-08-2024 Thursday	Practicing for assessment test	Day 2- preparation for assessment test	Sr.0 [Signature]
Day - 5 02-08-2024 Friday	Assessment test	Performing the assessment test	Sr.0 [Signature]
Day - 6 03-08-2024 Saturday	Discussion about project	Conversation about the project with group	Sr.0 [Signature]

WEEKLY REPORT

WEEK - 4 (From Dt 29.07.24 to Dt 03.08.24)

Objective of the Activity Done: Learned about sharing and collaboration on reports using power bi service

Detailed Report:

The fourth week of short term internship commenced with - Explored Power BI service's features for sharing & collaboration, including report publishing, setting permissions, and managing workspace. Practiced using sharing options and collaboration tools within the power BI service environment. Gained proficiency in sharing reports and dashboards. Identified best practices for effective collaboration within Power BI service. Researched and complied best practices for data analytics, including data modeling & visualization techniques. On the third day of week - preparing for Assessment Test focused study sessions on key topics, using practice exams & study guides, outlined a study plan for the following day. Next, started practicing for Assessment test Analyzed practice test results, revisited topics and reinforced knowledge using additional resources gained confidence in key subject areas. Next day, successfully Assessment test has completed, managing time effectively. At last day of the week - prepared materials & reviewed project goals & outcomes developed a plan for addressing feedback.

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 05-08-2024 Monday	Team Allotment	Selection of team leads & team members	S. O. Lashmi
Day - 2 06-08-2024 Tuesday	Mentor Allotment	Assigning mentors to each team	S. O. Lashmi
Day - 3 07-08-2024 Wednesday	Team project topic Selection	Selected project topics:- "Analysing McDonald's nutrition with Power BI insights"	S. O. Lashmi
Day - 4 08-08-2024 Thursday	Division of team project tasks	Divided the project tasks into a systematic project outflow/ layout	S. O. Lashmi
Day - 5 09-08-2024 Friday	Assigning tasks to team members	Assigning tasks to team members & updating the same in Apsche, SmartInteg	S. O. Lashmi
Day - 6 10-08-2024 Saturday	Defining and Analysing the business problems	Built a thorough understanding on business problem with respect to project topics.	S. O. Lashmi

WEEKLY REPORT

WEEK - 5 (From Dt. 05/08/24 to Dt. 10/08/24)

Objective of the Activity Done:

Detailed Report:

The fifth week of short term internship commenced with - the formation of teams and allotment of team leads and team members for each team. Our team received membership assignments. Our mentors provided valuable guidance and support throughout the internship and team project selection based on each team member's expertise on each project topic. Our team selected the project topic - Optimizing menu choices : Analyzing McDonald's Nutrition with Power BI Insights. and analyzed the business problem associated with our project topic. Afterwards, outlined and assigned specific tasks within the team members (rules) tasks - Task assigning, distributing responsibilities among team members was based on individual strength, interest and skills in Data analytics. By end of the week we defined the core activities to be finished for the project and set the foundation for data-driven solutions & insights in order to commence working on project.

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 12-08-2024 Monday	Creation of Dashboards, story, Report on McDonald's.	created Dashboard, story, report in IBM Cognos on topic - McDonald's	S. O. Lachhoo
Day - 2 13-08-2024 Tuesday	Web integration of Dashboard, story, Report into power BI.	Integrated Dashboards, story, Report into power BI.	S. O. Lachhoo
Day - 3 14-08-2024 Wednesday	Video Demonstration of project: McDonald's	creation video Demonstration on project.	S. O. Lachhoo
Day - 4 15-08-2024 Thursday	Project report writing	Drafting the report.	S. O. Lachhoo
Day - 5 16-08-2024 Friday	Project Report writing.	Drafting the final Report.	S. O. Lachhoo
Day - 6 17-08-2024 Saturday	Project Report finalisation and Submission.	Conclusion and Submission of final Report.	S. O. Lachhoo

WEEKLY REPORT
WEEK - 6 (From Dt. 12/08/24 to Dt. 17/08/24)

Objective of the Activity Done:

Detailed Report:

The sixth week of short term internship commenced with - we began working on the project on topic Students we selected the topic - Analyzing McDonald's Nutrition with power BI Insights. Each team member contributed and completed their assigned tasks. Therefore, Ensuring the successful completion of Dash Boards, story & Report on McDonald's nutrition which illustrates the co-relation between students Academic performance and Demographic factors.

We integrated the Dashboards, Report into our team's Excel webpage via visual studio. Afterwards we created a video Demonstration with voice giving insight into the project tasks / deliverables accomplished & completed successfully. We uploaded our team project Document files into our collaborated GitHub Repository along with Google drive link for video demo in both GitHub and Apsche Smart-Internz . By end of week, we finished our project report drafting and finalized our Report with our mentor for verification and 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 Power BI - insights 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 interpret 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 tool proficiency: proficiency with web based tools like power BI desktop, ms Excel, 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 pre-processing: 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 and 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 and making decisions to achieve project objectives.
- * Time Management: Prioritizing tasks, meeting deadlines, and efficiently allocating resources.
- * Problem Solving as a Team: Addressing challenges collectively and finding solutions through group discussions and collaboration.
- * Adaptability: Being flexible (&) adapting to changes in project scope (&) 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, dashboards, visualizations report and projects.
- * Team collaboration: Collaborating with team members to share information, discuss project progress & updates.
- * Written communication: Crafting clear & concise reports, documentation and emails related to data analytics processes.
- * Conflict Resolution: Addressing & Resolving conflicts within the team to maintain a positive and productive environment between team members.
- * Feedback Delivery: providing constructive feedback to peers, mentors & trainers and receiving feedback. Therefore, 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 Inteqn, 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 others, 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 viewpoints 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'm 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)

Description of the Digital technologies

- 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 on 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 options
- Security and compliance Enhancements
 - Advanced security Features