



DATAPLAY

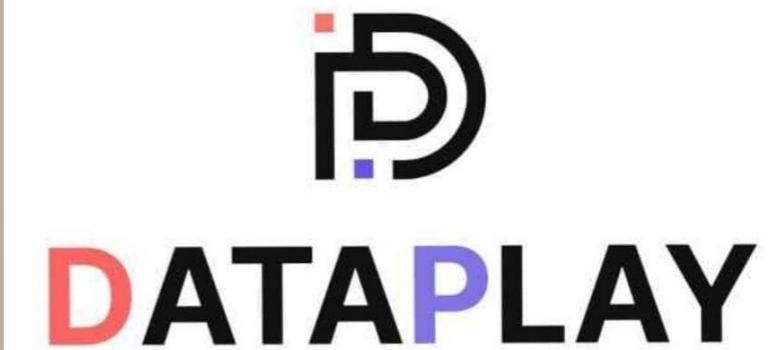
Industrial Training

~Akshita Jain
(219310044)



About Company

DataPlay is a cutting-edge technology company specialising in data analytics and business intelligence solutions. Founded with the mission to empower organisations through data-driven decision-making, DataPlay provides tools and services that help businesses transform raw data into actionable insights. By combining advanced analytics, machine learning, and user-friendly platforms, DataPlay enables clients to optimize their operations, enhance customer experiences, and drive growth.



Projects :-

01

Gender Prediction

02

Bus Matrix Architecture and StarSchema

03

Wordcloud Using Count Vectoriser & Wordcloud

04

Form Response analysis

**Akshata Jain
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AI&ML-7B**



DATAPLAY

Gender Prediction

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Overview

To evaluate the performance of gender prediction using Excel by calculating its F1 Score and accuracy..

Dataset

The dataset contains 3001 rows of data divided into two parts as train dataset and validation dataset.

Train :- This dataset consists of

- 2101 rows of data. Here we'll use Vlookup fun. and pivot table for prediction of Gender.

Validation :- This dataset consists

- of 901 rows. Similarly we'll use Vlookup fun. and pivot table for prediction of Gender.

	A	B	C	D	E	F
1	Name	Gender	LastLetter	Female	Male	Prediction
2	Ashutosh	Male	h	3.72%	96.28%	Male
3	Megham	Female	a	73.15%	26.85%	Female
4	Sahib	Male	b	15.79%	84.21%	Male
5	Pragya	Female	a	73.15%	26.85%	Female
6	Kranti	Female	i	82.04%	17.96%	Female
7	Tulika	Female	a	73.15%	26.85%	Female
8	Aarushi	Female	i	82.04%	17.96%	Female
9	Abhicandr	Male	a	73.15%	26.85%	Female
10	Pratigya	Female	a	73.15%	26.85%	Female
11	Devak	Male	k	6.25%	93.75%	Male
12	Kashipras	Male	d	5.08%	94.92%	Male
13	Madhavi	Female	i	82.04%	17.96%	Female
14	Charusila	Female	a	73.15%	26.85%	Female
15	Chithayu	Male	u	15.49%	84.51%	Male
16	Manmayi	Female	i	82.04%	17.96%	Female
17	Mahajabe	Female	n	6.54%	93.46%	Male
18	Krishnaku	Male	r	6.00%	94.00%	Male
19	Kailas	Male	s	10.81%	89.19%	Male
20	Nidhyathi	Female	i	82.04%	17.96%	Female
21	Nainika	Female	a	73.15%	26.85%	Female

Train Dataset

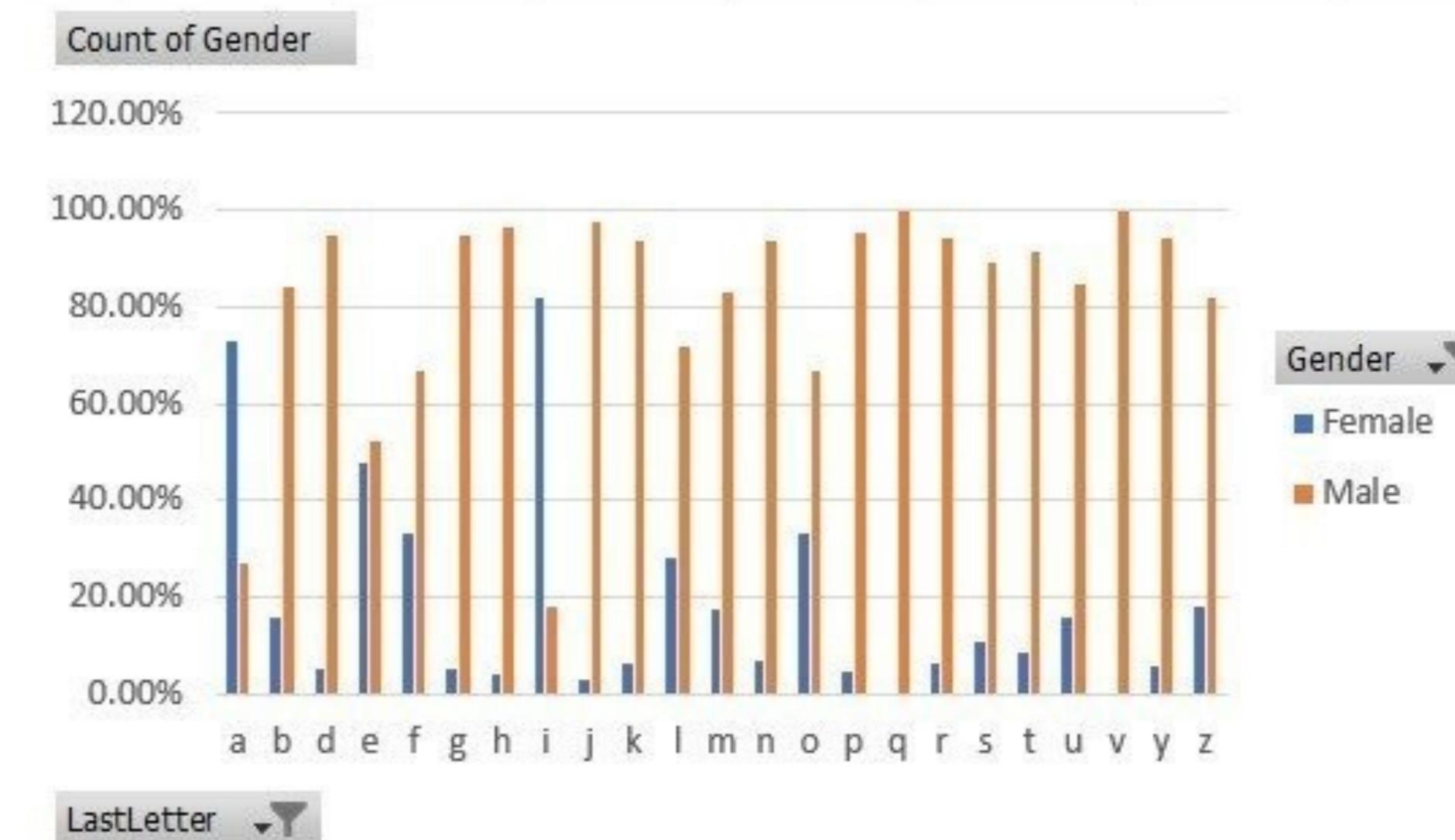
	A	B	C	D	E	F
1	Name	Gender	LastLetter	Female	Male	Prediction
2	Durva, Du	Female	a	71.78%	28.22%	Female
3	Bhaumik	Male	k	0.00%	100.00%	Male
4	Menaka	Female	a	71.78%	28.22%	Female
5	Egaiarasu	Male	u	4.00%	96.00%	Male
6	Lokajit	Male	t	13.79%	86.21%	Male
7	Glen	Male	n	4.55%	95.45%	Male
8	SivaSanka	Female	i	81.98%	18.02%	Female
9	Mukul	Male	l	20.00%	80.00%	Male
10	Dyutit	Male	t	13.79%	86.21%	Male
11	Navneeta	Female	a	71.78%	28.22%	Female
12	Snehanshi	Male	n	4.55%	95.45%	Male
13	Amitabha	Male	v	0.00%	100.00%	Male
14	Thangavel	Male	l	20.00%	80.00%	Male
15	Gajendra	Male	a	71.78%	28.22%	Female
16	Krishnala	Male	a	71.78%	28.22%	Female
17	Vidyadhar	Male	a	71.78%	28.22%	Female
18	Prithu	Male	u	4.00%	96.00%	Male
19	Sragvibhu	Male	n	4.55%	95.45%	Male
20	Madhuja	Female	a	71.78%	28.22%	Female

Validation Dataset

	A	B	C	D
3	Count of Gender	Column Labels		
4	Last Letter	Female	Male	Grand Total
5	a	73.15%	26.85%	100.00%
6	b	15.79%	84.21%	100.00%
7	d	5.08%	94.92%	100.00%
8	e	47.62%	52.38%	100.00%
9	f	33.33%	66.67%	100.00%
10	g	5.26%	94.74%	100.00%
11	h	3.72%	96.28%	100.00%
12	i	82.04%	17.96%	100.00%
13	j	2.63%	97.37%	100.00%
14	k	6.25%	93.75%	100.00%
15	l	28.26%	71.74%	100.00%
16	m	17.19%	82.81%	100.00%
17	n	6.54%	93.46%	100.00%
18	o	33.33%	66.67%	100.00%
19	p	4.76%	95.24%	100.00%
20	q	0.00%	#####	100.00%
21	r	6.00%	94.00%	100.00%
22	s	10.81%	89.19%	100.00%
23	t	8.65%	91.35%	100.00%
24	u	15.49%	84.51%	100.00%
25	v	0.00%	#####	100.00%
26	y	5.56%	94.44%	100.00%
27	z	18.18%	81.82%	100.00%
28	Grand Total	46.45%	53.55%	100.00%

Train Dataset

A Pivot table is created from Train dataset by using Vlookup in separate sheet for prediction of Gender.

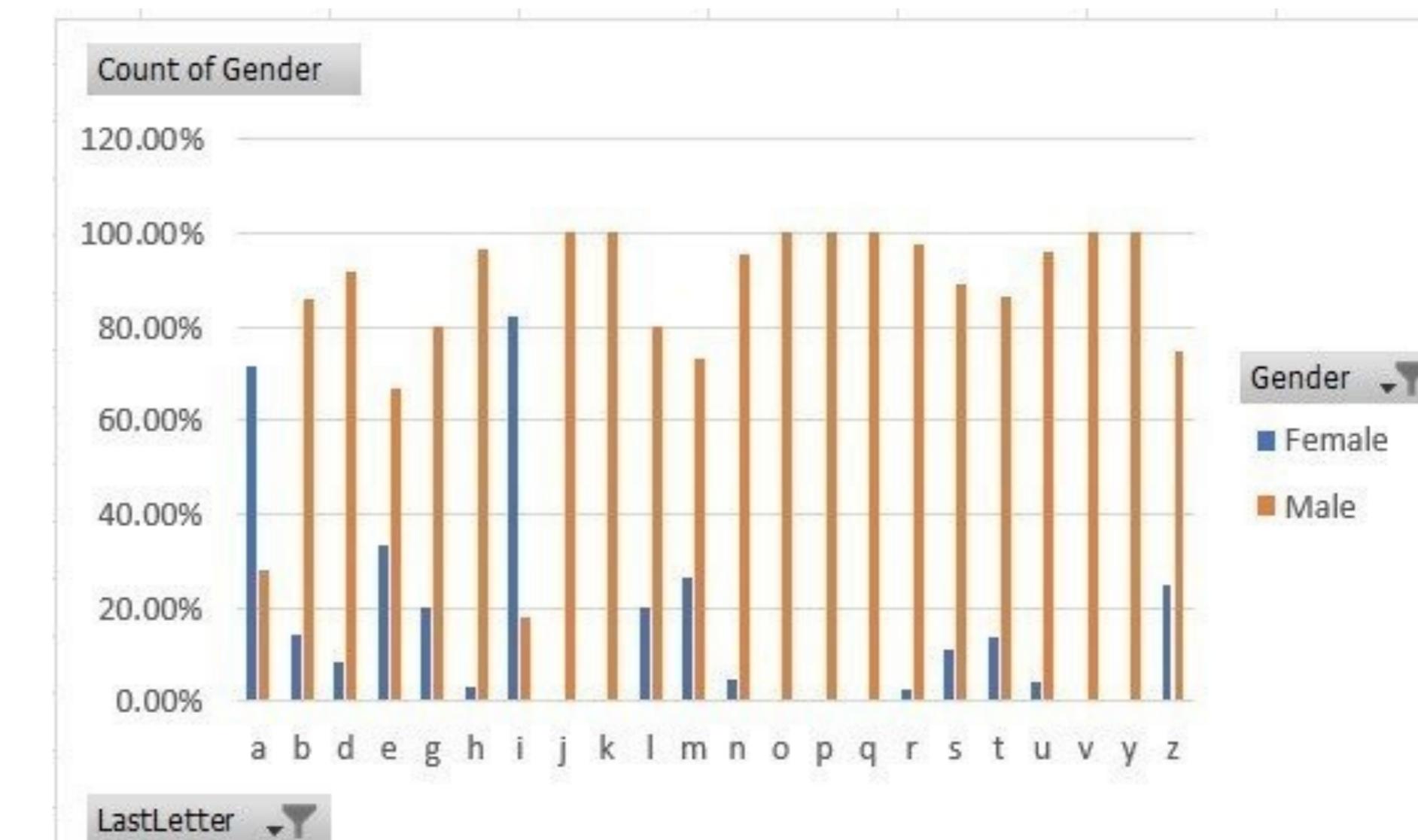


The graphical representation of Gender

Validation Dataset

3	Count of Gender	Column Labels		
4	Last Letter	Female	Male	Grand Total
5	a	71.78%	28.22%	100.00%
6	b	14.29%	85.71%	100.00%
7	d	8.33%	91.67%	100.00%
8	e	33.33%	66.67%	100.00%
9	g	20.00%	80.00%	100.00%
10	h	3.28%	96.72%	100.00%
11	i	81.98%	18.02%	100.00%
12	j	0.00%	100.00%	100.00%
13	k	0.00%	100.00%	100.00%
14	l	20.00%	80.00%	100.00%
15	m	26.67%	73.33%	100.00%
16	n	4.55%	95.45%	100.00%
17	o	0.00%	100.00%	100.00%
18	p	0.00%	100.00%	100.00%
19	q	0.00%	100.00%	100.00%
20	r	2.38%	97.62%	100.00%
21	s	11.11%	88.89%	100.00%
22	t	13.79%	86.21%	100.00%
23	u	4.00%	96.00%	100.00%
24	v	0.00%	100.00%	100.00%
25	y	0.00%	100.00%	100.00%
26	z	25.00%	75.00%	100.00%
27	Grand Total	45.17%	54.83%	100.00%

A Pivot table is created from Validation dataset by using Vlookup in separate sheet for prediction of Gender.



The graphical representation of Gender

Calculation of Precision, recall, accuracy and

		Predicted Class		
		Positive	Negative	
Actual Class	Positive	True Positive (TP)	False Negative (FN) Type II Error	Sensitivity $\frac{TP}{(TP + FN)}$
	Negative	False Positive (FP) Type I Error	True Negative (TN)	Specificity $\frac{TN}{(TN + FP)}$
		Precision $\frac{TP}{(TP + FP)}$	Negative Predictive Value $\frac{TN}{(TN + FN)}$	Accuracy $\frac{TP + TN}{(TP + TN + FP + FN)}$

$$\text{F1-Score} = \frac{2(\text{Precision} \times \text{Recall})}{\text{Precision} + \text{Recall}}$$

$$\text{Macro - Averaged F1-Score} = (\text{Positive F1-Score} + \text{Negative F1-Score}) / 2$$

F1-Score of Train Dataset

3	Train Table	Predicted Gender		
4	Actual Gender	Female	Male	Grand Total
5	Female	882	105	987
6	Male	268	845	1113
7	Grand Total	1150	950	2100
8				
9				
10	Calculation of Positive class		Calculation of Negative Class	
11	Calculation of Precision = 0.767		Calculation of Precision = 0.889	
12				
13	Caluculation of Recall = 0.894		Calculation of Recall = 0.759	
14				
15	Calculation of Accuracy = 0.822		Calculation of Accuracy = 0.822 (Same for both Positive and Negative)	
16				
17	Calculation of F1 Score of Positive Class = 0.825		Calculation of F1 Score of Negative Class = 0.819	
18				
19				
20		Macro- Averaged F1 Score = 0.823		
21				

Calculation of Precision, Recall,
Accuracy and F1-Score

F1-Score of Validation Dataset

3	Validation Table Predicted Gender	Female	Male	Grand Total
4	Actual Gender			
5	Female	375	32	407
6	Male	123	371	494
7	Grand Total	498	403	901
8				
9	Calculation of Positive Class			Calculation of Negative Class
10				
11	Calculation of Precision = 0.753			Calculation of Precision = 0.920
12				
13	Calculation of Recall = 0.921			Calculation of Recall = 0.751
14				
15	Calculation of Accuracy = 0.827			Calculation of Accuracy = 0.827 (Same for both Positive and Negative)
16				
17	Calculation of F1 Score of Positive Class = 0.828			Calculation of F1 Score of Negative Class = 0.827
18				
19			Macro- Averaged F1 Score = 0.828	

Calculation of Precision, Recall,
Accuracy and F1-Score



DATAPLAY

Bus Matrix Architecture and Star Schema

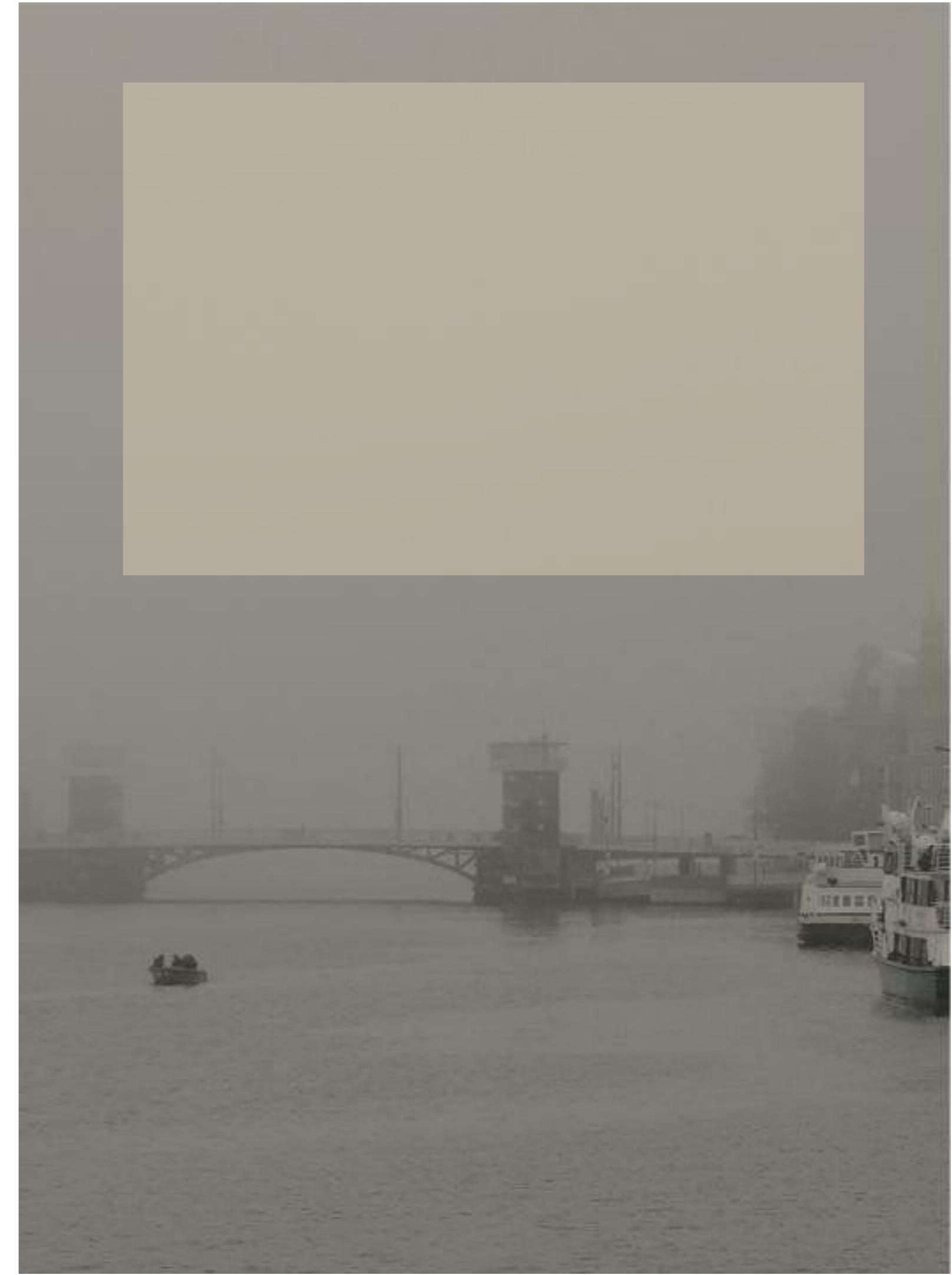
~Akshita
Jain



Objectives

Objective 1 :- Create a Bus Matrix Architecture using Microsoft Excel using the dataset "Most streamed Spotify Songs 2024".

Objective 2 :- Create a Star Schema using Power BI from a collection of various datasets with a fact table and multiple dimension tables.



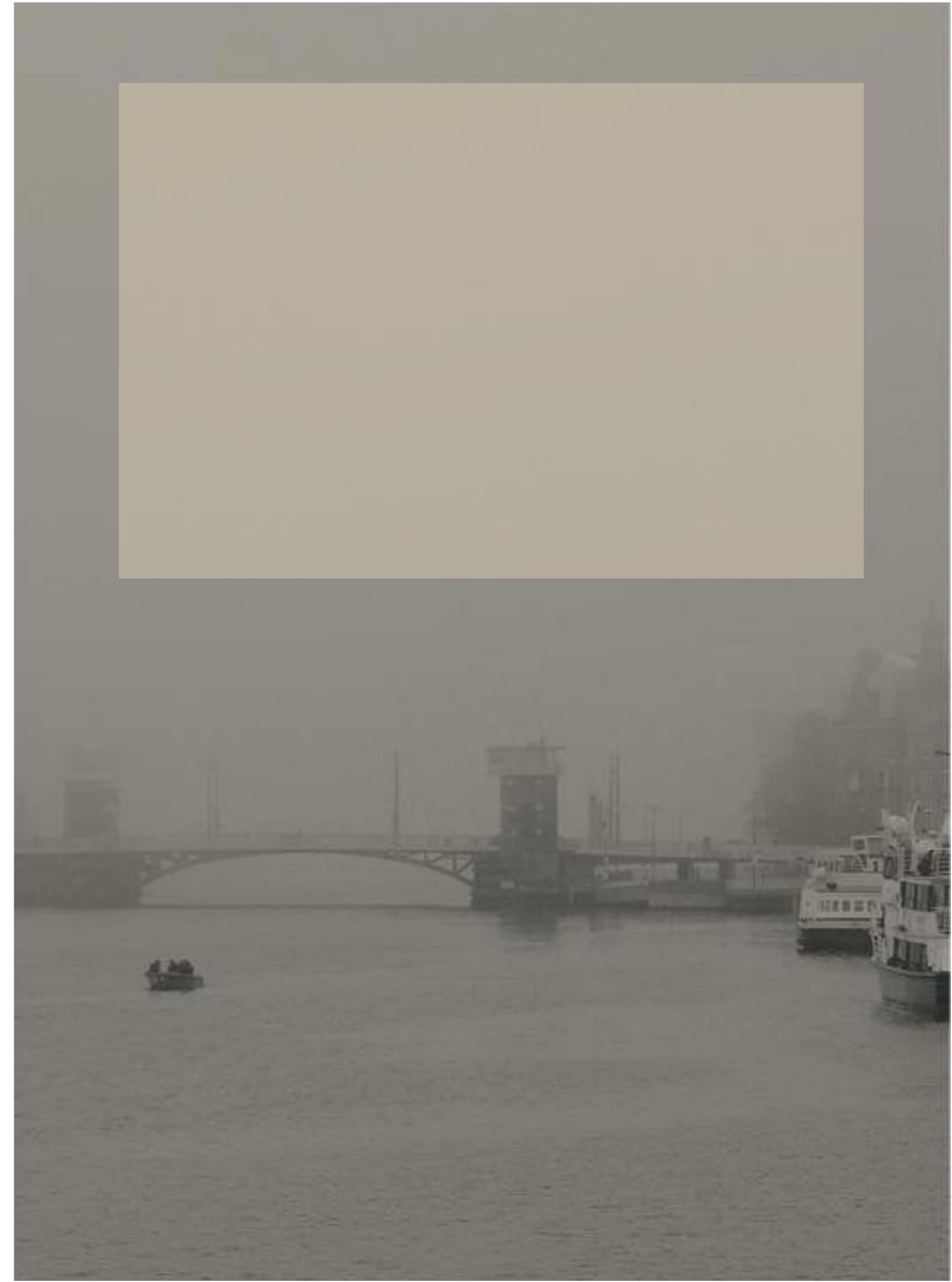
Methodology

Bus Matrix Architecture :-

- Identify and design conform dimensions (Time, User, Artist, Song)
- Define and design fact tables (user interactions, external data)
- Create a bus matrix.

Star Schema :-

- Design star schemas for each business process
- Define dimension tables (Users, Songs, Artists, Albums, Playlists, Time, external categories)
- Design fact tables (user interactions, song metrics, external datasets)



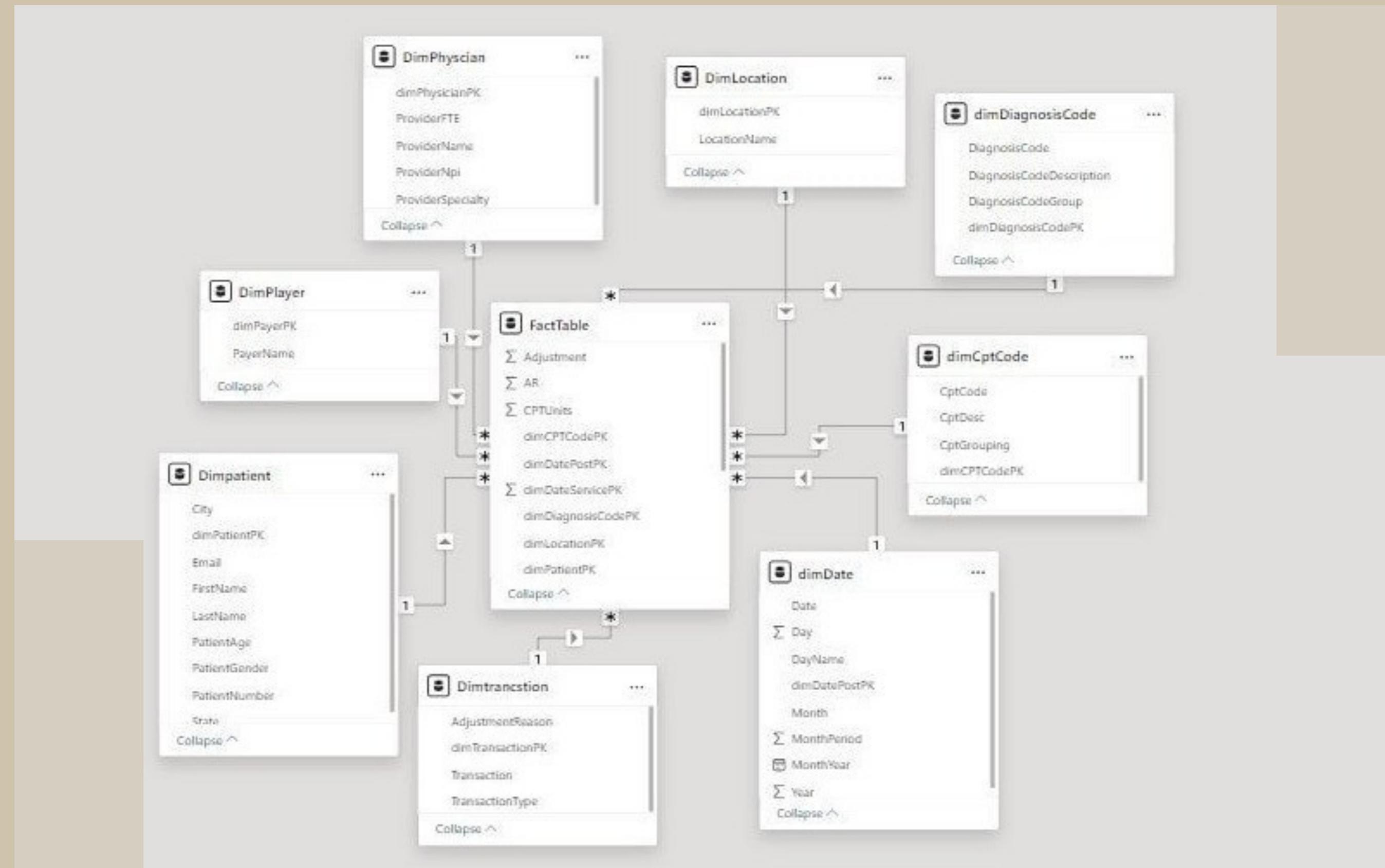
Overview of raw data

Rank	A	B	C	D	E	F	G	H	I	J
	MILLION DOLLAR BABY	Million Dollar Baby - Single	Tommy Richman	4/26/2024	QM24S2402528	1	725.4	39,04,70,936	30,716	19,66,31,588
3	Us	Not Like Us	Kendrick Lamar	5/4/2024	USUG12400910	2	545.9	32,37,03,884	28,113	17,45,97,137
4	way you kiss me	I like the way you kiss me	Artemas	3/19/2024	QZJ842400387	3	538.4	60,13,09,283	54,331	21,16,07,669
5		Flowers - Single	Miley Cyrus	1/12/2023	USSM12209777	4	444.9	2,03,12,80,633	2,69,802	13,65,69,078
6		Houdini	Eminem	5/31/2024	USUG12403398	5	423.3	10,70,34,922	7,223	15,14,69,874
7	on Me	Lovin On Me	Jack Harlow	11/10/2023	USAT22311371	6	410.1	67,06,65,438	1,05,892	17,54,21,034
8	ll Things	Beautiful Things	Benson Boone	1/18/2024	USWB12307016	7	407.2	90,01,58,751	73,118	20,15,85,714
9	ly	Gata Only	FloyyMenor	2/2/2024	QZL382406049	8	375.8	67,50,79,153	40,094	21,12,36,940
10	uduro - Cover	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ -	MUSIC LAB JPN	6/9/2024	TCJPA2463708	9	355.7	1,65,30,18,119	1	15
11	BAND (feat. Lil Baby)	BAND4BAND (feat. Lil Baby)	Central Cee	5/23/2024	USSM12404354	10	330.6	9,06,76,573	10,400	18,41,99,419
12	ome Help (feat. Morgan Wallen)	I Had Some Help	Post Malone	5/10/2024	USUM72404990	11	322.1	25,00,80,413	16,219	16,87,66,158
13	or	The Door	Teddy Swims	6/14/2024	USWB12402486	12	320.2	11,11,55,129	2	2,63,767
14		HIT ME HARD AND SOFT	Billie Eilish	5/17/2024	USUM72401991	13	316.3	22,16,36,195	13,800	19,72,80,692
15	it	WE DON'T TRUST YOU	Future	3/22/2024	USSM12402041	14	308.2	35,51,86,436	43,025	10,81,68,634
16	m floor	bathroom floor	Kids With Buns	10/7/2022	NLC242100307	15	301.6	2,97,185	277	24,445
17		LALA - Single	Myke Towers	3/22/2023	USWL12300002	16	299.9	92,56,55,569	1,03,605	7,99,44,921
18	it (feat. Post Malone)	THE TORTURED POETS DEPARTMENT	Taylor Swift	4/18/2024	USUG12401028	17	297.6	39,54,33,400	12,784	17,79,32,568
19		greedy	Tate McRae	9/14/2023	USRC12301932	18	293.7	1,25,85,69,694	1,05,218	19,88,45,580
20		HIT ME HARD AND SOFT	Billie Eilish	5/17/2024	USUM72401996	19	292.6	9,12,72,461	6,499	5,22,87,548
21	s	As It Was	Harry Styles	3/31/2022	USSM12200612	20	292	3,30,18,14,535	4,07,119	16,97,83,402
22	e Town Red	Paint The Town Red	Doja Cat	8/4/2023	USRC12300907	21	290.5	1,06,53,99,331	1,70,890	12,17,12,197
23	o	Espresso	Sabrina Carpenter	4/12/2024	USUM72403305	22	281.5	54,78,82,871	24,425	26,23,43,414
24	uduro - Cover	CLUB DE YOKUKIKU YOUNGAKU MEDLEY	MUSIC LAB JPN	5/21/2024	TCJPA2445163	23	279	1,65,55,75,417	10	655
25	HOLD 'EM	TEXAS HOLD 'EM	Beyoncé	2/10/2024	USSM12401302	24	278.9	42,67,00,979	34,044	15,29,28,632
26		Future	official sound studio	1/10/2024	RUA1H2415548	25	277.5		1	2
27	tomotivo Tan Tan Tan Viral	Beat Automotivo Tan Tan Tan Viral	WZ Beat	5/24/2022	BXWEH2200054	26	268.1	73,82,759	3,504	6,61,084
28	ith Justin Bieber)	STAY (with Justin Bieber)	The Kid LAROI	7/9/2021	USSM12103949	27	266.3	3,10,71,00,349	4,51,732	13,47,93,519
29	ark	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ	Pinkfong	12/1/2015	KRE671700001	28	265.7	72,08,22,868	60,945	75,30,769
30	t be friends (wait for your love)	eternal sunshine	Ariana Grande	3/8/2024	USUM72317276	29	262.8	59,10,68,364	26,203	19,74,94,995
31	Encore	Papercuts	JAY-Z	4/12/2024	USWB12400678	30	256	1,00,32,15,671	128	4,85,454
32	uduro - Cover	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ	LOVE BGM JPN	5/14/2024	TCJPA2406007	31	249.8	1,64,50,79,292		

Bus Matrix

	A	B	C	D	E	F	G	H	I	J
1	Business Processes	Song Title	Artist	Album	Genre	Release Date	Total Streams	Monthly Streams	Popularity Index	
2	Song Streaming Analysis	X	X	X	X	X	X	X	X	X
3	Artist Popularity Tracking		X		X		X	X		X
4	Monthly Stream Trends				X		X	X		X
5	Genre Popularity Analysis				X		X			X

Star Schema



DataPlay's Reviews WordCloud(Using Count Vectorizer and WordCloud)

**~Akshita
Jain**

Raw Data

	A	B	C
1	NAMES	RATING	GOOGLE REVIEW COMMENT
2	Abhinav Bharat	5	I had a fantastic experience at DataPlay. The institute offers excellent training in data analysis, covering statistics, Excel operations, and Power BI tools. The knowledgeable instructors and comprehensive materials make it a top choice for aspiring data sc
3	Divanshu Choudhary	5	recommended for quality education and hands-on learning!
4	Jatin Bhagtnani	5	
5	Jinal Shukla	5	
6	Jiva	5	
7	Kurakula Prashanth	4	
8	Mradul Shrotriya	5	According to me it's a very good place for learning with a good hearted teachers too. Most of institutes are not put efforts towards the students who are average but in DataPlay they put efforts for every single student and their teaching style is so nice because I'm new in that course I didn't wonder why I softly understand every single thing the 5 possible just because of their student friendly teaching.
9	Nishita Sharma	5	Nishant sir and Mahima ma'am have outstanding sessions that help you gain clarity and improve your skills.
10	Prit Anand	5	Altogether it has been a great experience, the mentors are really helpful and does a very well job in making the classes engaging and interactive.
11	Rishabh Vaish	5	2 days agoNew My overall experience was great. Mentors were incredibly supportive, effectively explaining tools and concepts through real-life scenarios. I gained valuable hands-on experience with Power BI and Excel, engaged in discussions about interview questions and improved my knowledge throughout the course.
12	Tejasvi Poonia	5	The explanations start from the very basics so the content is easy to understand while the assignments provide a route for application of concepts.
13	UTPAL KUMAR RAY	5	DataPlay is an excellent learning place for aspiring Data Scientist & Data Analyst. I am currently enrolled in Data Science training program. The mentors are truly good hearted and experienced professionals who provide valuable guidance. They help every
14	Vaidik Asawa	5	I'm currently learning Data Analysis from here and it's going well, started from the basics at a very good pace. Sessions are very interactive. Good place to start.
15	Yaman Sain	5	
16	Yash Tak	5	Highly recommended Nishant sir and Mahima ma'am – highly motivating and insightful! Working with a Nishant sir and Mahima ma'am has been incredible. The guidance and support have helped me improvise myself and achieve personal & professional goals. Each session was amazing, insightful, and empowering. 5 Nishant sir and Mahima ma'am have outstanding sessions that help you gain clarity and improve your skills. The personalized sessions and constructive feedback improve you at every step.
17	Arpan Banerjee	5	Happy to join with Dataplay , nice experience.
18	Aryan Khandelwal	5	
19	Chandan op	5	Useful For Beginners, Easy To Understand, Nice Experience, Great Features
20	Kartikey Patiyar	5	
21	Naitik Parik	5	This is very good experience because easy to explain
22	Naman Sehra	5	I'm currently enrolled in the data analysis and data science training program at DataPlay, and I couldn't be more thrilled with my experience. The mentors are truly exceptional, consistently going above and beyond to ensure every student thoroughly unders
23	Paras Kaushik	5	
24	Prit Anand	5	Altogether it has been a great experience, the mentors are really helpful and does a very well job in making the classes engaging and interactive.
25	Sangam Dhaker	5	The experience is really good and both sir and mam are very helpful and gained so much valuable experience here .
26	Satyam Kumar	5	The mentors at DataPlay are exceptionally productive and focused on multidimensional learning. They ensure we stay updated with the latest industry trends and developments. Their commitment to understanding each student's strengths and weaknesses
27	Vaidik Asawa	4	I'm currently learning Data Analysis from here and it's going well started from the basics at a very good pace. Sessions are very interactive. Good place to start

Objective: To analyze reviews to extract meaningful insights by utilising word count vectors.

Extracting Words

NAME	RATING	GOOGLE REVIEW	COMPILED REVIEW
1 Chinav Bharat	5		
2 Jayanshu	5	I had a fantastic experience at DataPlay.	The institute offers excellent training.
3 Sudhary	5		
4 Vin Bhagtni	5		
5 Fal Shukla	5		
6 A	5		
7 Rakula Prashanth	4		
8 Radul Shrotriya	5	According to me it's a very good place for learning with a	
9 Shital Sharma	5	Nishant sir and Mahima ma'am have ding s that help you gain	
10 Nit Anand	5	Altogether it has been a great ce, the mentors are really helpful	
11 Shabhb Vaish	5	2 days agoNew	
12 Jasvi Poonia	5	The ions start from the very basics so the content is easy	
13 PAL KUMAR RAY	5	DataPlay is an t learning place for aspiring Data t & Data	
14 Aadik Asawa	5	I'm y learning Data Analysis from here and its going well, started	
15 Man Sain	5		
16 Arch Tak		recomm ended Nishant sir and Mahima ma'am highly motivati ng and insightful	
	5 Highly		

Tools used:- MS Excel is used in the data preparation part with some advanced formulas like :- Text-to-Columns tab with delimiter and Transpose(for Tokenization) UNIQUE function and COUNTIF function for Count

A	B	C
Values	Unique Values	Frequency
I	I	6
had	had	1
a	a	30
fantastic	fantastic	1
experience	experience	8
at	at	5
DataPlay.	DataPlay.	1
The	The	42
institute	institute	2
offers	offers	2
excellent	excellent	3
training	training	5
in	in	11
data	data	25
analysis,	analysis,	1
covering	covering	1
statistics,	statistics,	1
Excel	Excel	3
operations,	operations,	1
and	and	63
Power	Power	1

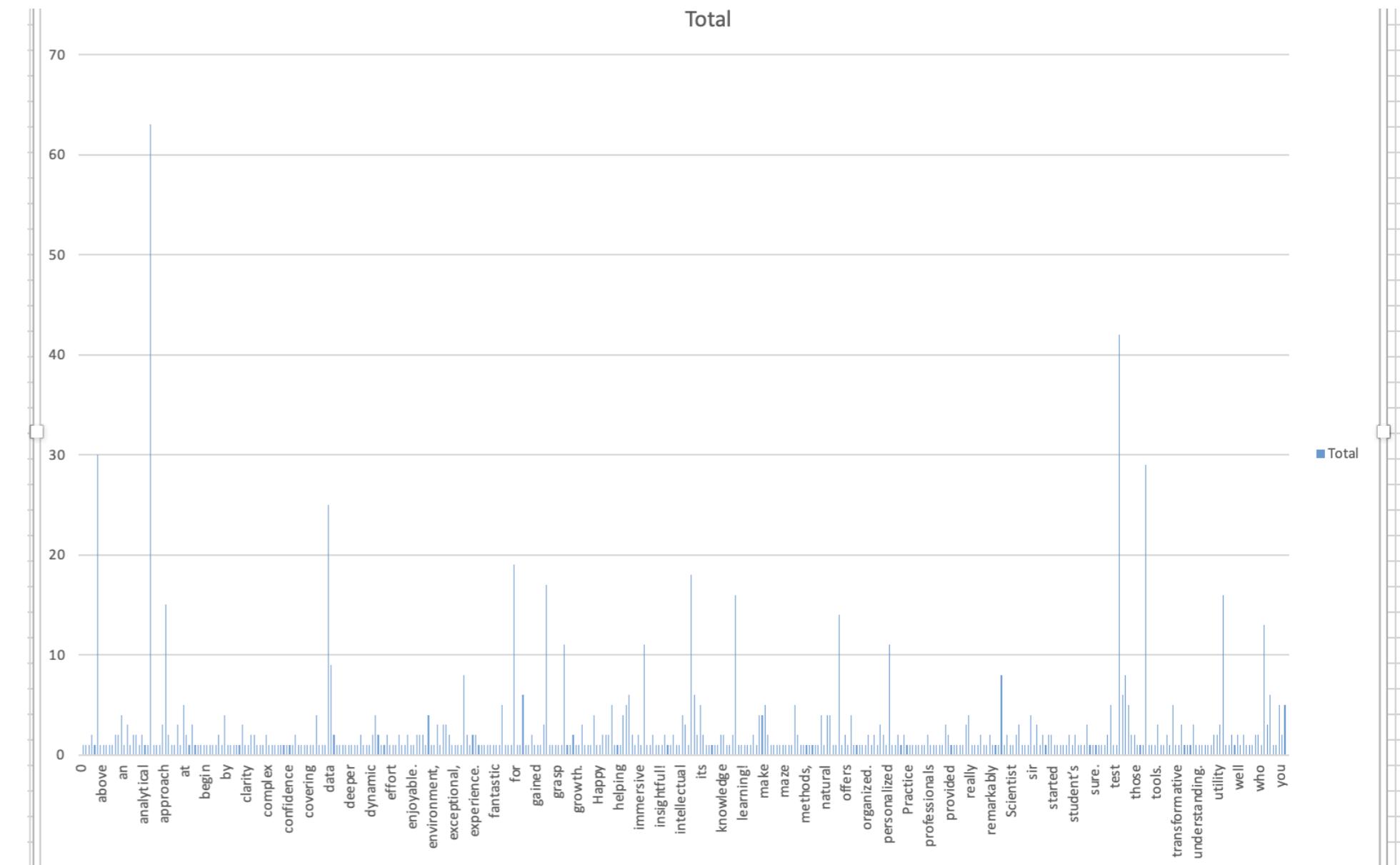
DATA PREPARATION

- > The UNIQUE function is used on this new column to get only Unique words in the data.
- > Finally, the COUNTIF function is used to obtain the frequency of these Unique values.

3	Row Labels	Sum of Frequency
4	0	0
5	-	1
6	,	1
7	.	1
8	&	2
9	⭐️🌟💡💡	1
10	a	1
11	above	1
12	According	1
13	advanced	1
14	algorithms,	1
15	also	1
16	Altogether	2

Analyzing the Data

A Numerical matrix representing the frequency of each words per review.



Creating WordCloud

- >Export data from excel.
 - >In Power BI, go to visualization panel.
 - >Search "Word Cloud" and click add to install visual in search bar
 - >Drag the word cloud visual on report canvas.
 - > Make sure to add stop words.



Form Response Analysis with Excel

~Akshita Jain



Table Of Contents

1. Objective
2. Tools Used
3. Methodology
4. Results

E	F
Degree	Enrolled
B.E.	Yes
3 BTech	Yes
BTech	Yes
BTech	Yes
2 MCA	Yes
1 BCA	Yes
4 BTech	Yes
4 BTech	Yes
<u>B.Sc</u>	Yes
3 BTech	Yes
MPH	Yes
4 BTech	Yes
4 BTech	Yes
3 BTech	Yes
MCA	Yes
M.Sc statist	Yes
Bcom	Yes
2 MCA	Yes
1 BTech	Yes

Objective

The form response Excel workbook has three sheets in it:
One containing the student info. One containing the test score, and the final one containing details about the questions and answers of google form filled by the onboarding students.

Form Responses

This form contains the general as well as academic information of the students.

A	B	C	D	E	F	G	
1	Timestamp	Applicant ID	College	Year of Study in College	Degree	Enrolled	You
18	6-12-2024 9:36:47	17	MBM Unive	College Pass out	B.E.	Yes	Jodhpur
95	6-12-2024 11:20:39	94	MBM Unive		3 BTech	Yes	Jaipur
109	6-12-2024 12:17:50	108	Hindustan I	College Pass out	BTech	Yes	Asansol
120	6-12-2024 13:23:37	119	Noida instit	College Pass out	BTech	Yes	Mehrauli
179	6-17-2024 22:42:33	178	Career Poin		2 MCA	Yes	Kotputli
199	6-19-2024 16:12:58	198	Maharishi A		1 BCA	Yes	Jaipur
228	6-20-2024 13:41:44	227	Manipal Un		4 BTech	Yes	Jaipur
244	6-20-2024 13:48:10	243	Poornima C		4 BTech	Yes	Jaipur
263	6-20-2024 14:02:14	262	JAI PRAKASI	College Pass out	B.Sc	Yes	SAPTA
334	6-24-2024 16:59:11	333	Manipal Un		3 BTech	Yes	Bahrain
351	6-29-2024 11:27:50	350	IPH-Rajasth	College Pass out	MPH	Yes	Jaipur
386	6-30-2024 7:52:58	385	Artificial Int		4 BTech	Yes	KUJ
444	6-30-2024 15:39:53	443	Maharaja a		4 BTech	Yes	Mehrauli
460	6-30-2024 20:33:38	459	Poornima C		3 BTech	Yes	Jaipur
463	7-1-2024 14:14:45	462	Poornima C		3 BTech	Yes	Shivam
487	7-2-2024 1:54:24	486	Birla Institu		3 BTech	Yes	Jaipur
506	7-2-2024 18:42:50	505	Poornima C		3 BTech	Yes	Jaipur
515	7-2-2024 20:53:55	514	RB Institutue	College Pass out	MCA	Yes	Ahmedabad
516	7-2-2024 22:38:45	515	R.C.S.C ,Kol	College Pass out	M.Sc statist	Yes	Patna

Submitted Responses

This form gives all the answers to the questions given by the students as well as their total score.

A	B	C	D	E	F	G	H	I	J	K	L	M
Applicant ID	Timestamp	Score	Question 1	Question 2	Question 3	Question 4	Question 1	Question 2	Question 3	Question 4	Question 1	Question 2
1			In the past, consumers would rarely walk into an ice cream store and order low-fat ice cream.	Statement 1. The prices of petrol and diesel in the domestic market have remained	If the ratio of the ages of two persons is 4:5 and the sum of their ages is 36	Which one of the following equation represents line graph.	Select the correct degree of polynomial	Three unbiased coins are tossed.	What is the probability of getting at most two heads?	Three girls. Three students are selected at random. The	In a class there are 15 boys and 10	
2	530	2024-07-04 19:32:30	11	0.625	0.021	low-fat ice cream	Statement 16 years a $y = -2x+1$	$x = -1$ is a la(2nd Ord 7/8			7/8	21/46
3	522	2024-07-04 19:45:32	10	0.75	0.017	consumer: Both the s 16 years and 20 year	$x = 0$ is a lca(2nd Ord 7/8				7/8	21/46
4	529	2024-07-04 19:22:53	12	0.75	0.017	ice cream	Both the s 16 years a $y = -2x+1$	$x = 0$ is a lcb(2nd Ord 7/8			7/8	21/46
5	333	2024-07-05 18:37:36	6		0.021	ice cream	Both the s 14 years a $y = 2x+1$, $2x = 0$ is a lca(2nd Ord 7/8				7/8	1/50
6	531	2024-07-04 19:21:58	4			low fat ice	Both the s 16 years a $y = -2x+1$		$a/2nd Ord 3/4$		3/25	

Questions Set



This sheet contains the correct answers to each question.

A	B	C	D	E	F	G	H	I	J	K
Question s	Question 1	Question 2	Question 3	Question 4	Question 1	Question 2	Question 3	Question 4	Question 1	Question In the past, consumers would have been more likely to buy products if they had been advertised on TV.
Topics	DataInterpretation	DataInterpretation	DataInterpretation	DataInterpretation	Maths	Maths	Maths	Maths	Probability	Probability
Mode	0.75	0.017	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	y	y
Mode(Appllicable)										
ToText)	0.75	0.017	#VALUE!	Both the statements I and II are correct.	Both the statements I and II are correct.	Both the statements I and II are correct.	Both the statements I and II are correct.	Both the statements I and II are correct.	7/8	21/40
			store owners no longer think that there is a causal relationship between TV advertising and product sales.	Both the statements I and II are correct.	Both the statements I and II are correct.	Both the statements I and II are correct.	x = 3 is a local minimum of f, x = 0 is a local maximum of g.	x = 3 is a local minimum of f, x = 0 is a local maximum of g.	Order), b(3rd Order), minimum Order), of f, x = 0 c(4th Order),	

Tasks

- Task 1: Do a Vlookup of scores from 'Submitted responses" to "form responses" sheet.
- Task 2: Create a Pivot table to display average scores wrt " I am aspiring " field for enrolled students.
- Task 3: Create a Pivot table for displaying degree and their average scores but for those who submitted test.
- Task 4: Create a new sheet named "Questionwisescores" in Excel where each student's answers are evaluated with 1 mark for correct answer and 0 for wrong answer.
- Task 5: Calculate average score topic wise.



Tools Used

- MS Excel
- Vlookup
- If
- Pivot table
- Transpose

Task 1:-

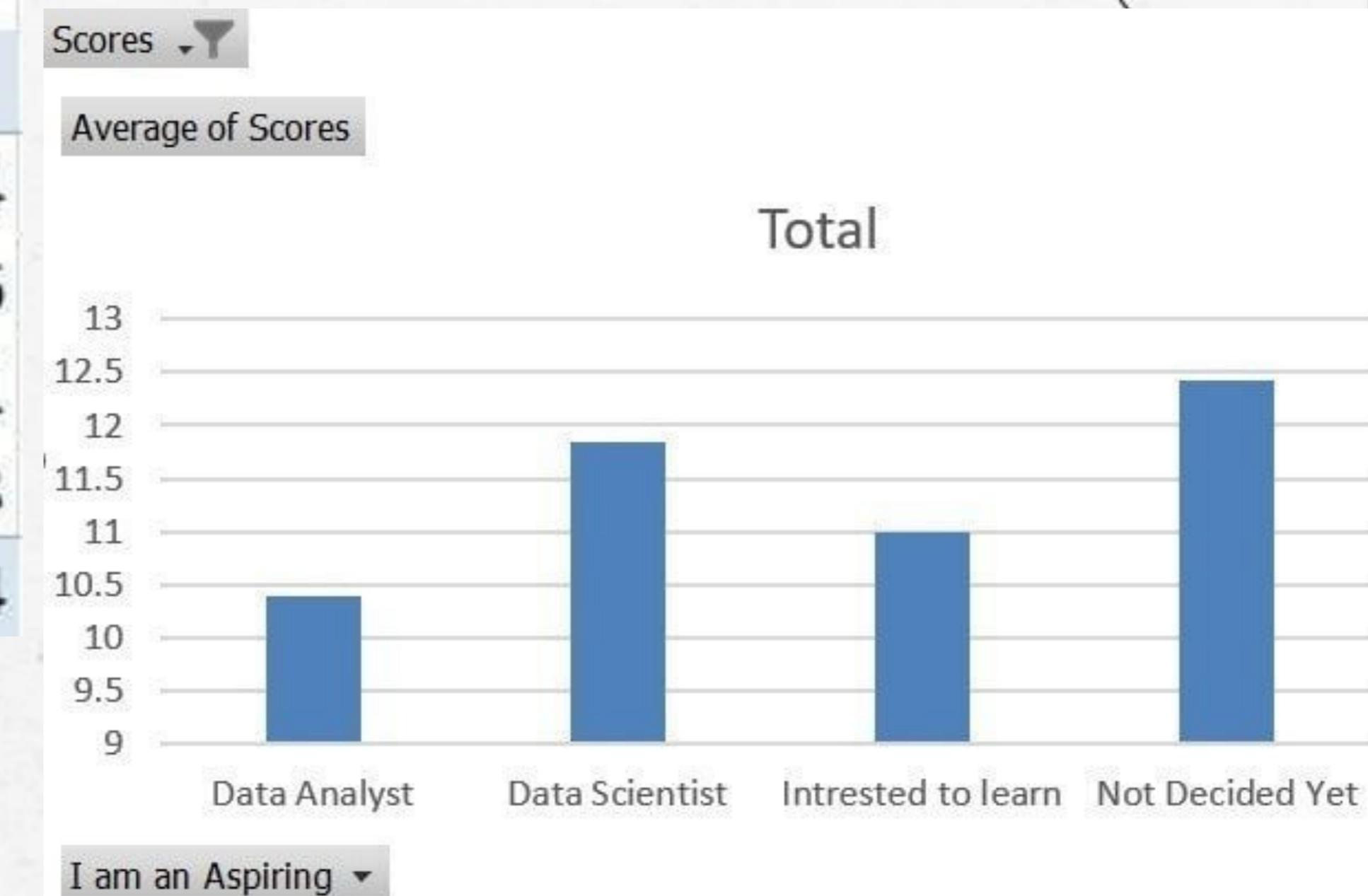
Do a Vlookup of Scores from "submitted responses" sheet to "form responses" sheet

	J	K	L	M	N	O	P	Q	R	S	T	U
	I am an	Preferre	Referral	When w	Your CT	Year of Bi	Is Interr	Previous	Last clas	Do you	I attend	Scores
h	Data Analys Online											11
d to	Data Analys Offline											15
ace	Data Scienti Online											12
anical	Data Scienti Offline											10
d to	Not Decidec Offline											8
	Data Scienti Online											11
	Data Scienti Online	Linkedin Job	2025	5L-10L		2003						14
al int	Data Scienti Offline	Linkedin Job	2025	>15L	25 July 2002	Yes						12
d to	Data Scienti Online	Linkedin Job	2023	5L-10L		2001	I am not in College					12
	Data Analys Online	Friend Refer	2025	10L-15L		2003	Yes					6
tistics	Data Scienti Offline	Linkedin Job	2024	>15L	24 03 2000	I am not in C	No		72			9
	Data Analys Offline	Linkedin Job	2025	10L-15L		2004	Yes	Customer Se	7.2	No		16
	Data Scienti Online	Linkedin Job	2025	10L-15L		2006	Yes	No	88	I have done	Yes	15
	Not Decidec Offline	College TPO	2026	5L-10L		2005	Yes	No	60%	No	Yes	11
d to	Data Scienti Offline	Friend Refer	2025	5L-10L	30/09/2004	Yes	no		80%	yes	Yes	5
	Data Scienti Online	Friend Refer	2025	>15L		2001	Yes	No	73	No	No	18
	Not Decidec Offline	Friend Refer	2026	10L-15L		2004	Yes	No	12th -69%	No	Yes	15
	Data Analys Online	DataPlay Re	2023	5L-10L		2000	No	None	8.70 CGPA	Yes I have ,	Yes	12
tatisti	Data Analys Online	Friend Refer	2024	5L-10L		2000	No	None	68%	No	Yes	8
d to	Data Analys Offline	Google Sear	Yes	>15L	14/11/2001	Yes	Odin school		59	Yes	Yes	8
	Data Scienti Offline	Friend Refer	2021	10L-15L		2002	Yes	NA	7.47	NA	No	6
Intrested to	Offline	College TPO	2026	>15L		2002	It is optiona	No	6.15	No	Yes	11
	Data Analys Online	Friend Refer	2023	5L-10L		1999	I am not in C	Na	70%	Na	Yes	8
	Not Decidec Online	College TPO	2025	5L-10L		2004	Yes	fresher	62% (1st Year)	no	Yes	10
	Data Scienti Offline	Linkedin Job	2026	>15L		2002	Yes	no	64	no	Yes	20
	Data Scienti Online	DataPlay Re	2025	>15L	27/10/2003	No	no	BCA	no		Yes	7

Task 2:-

Create a Pivot table to display average scores wrt "I am an Aspiring " field for enrolled students

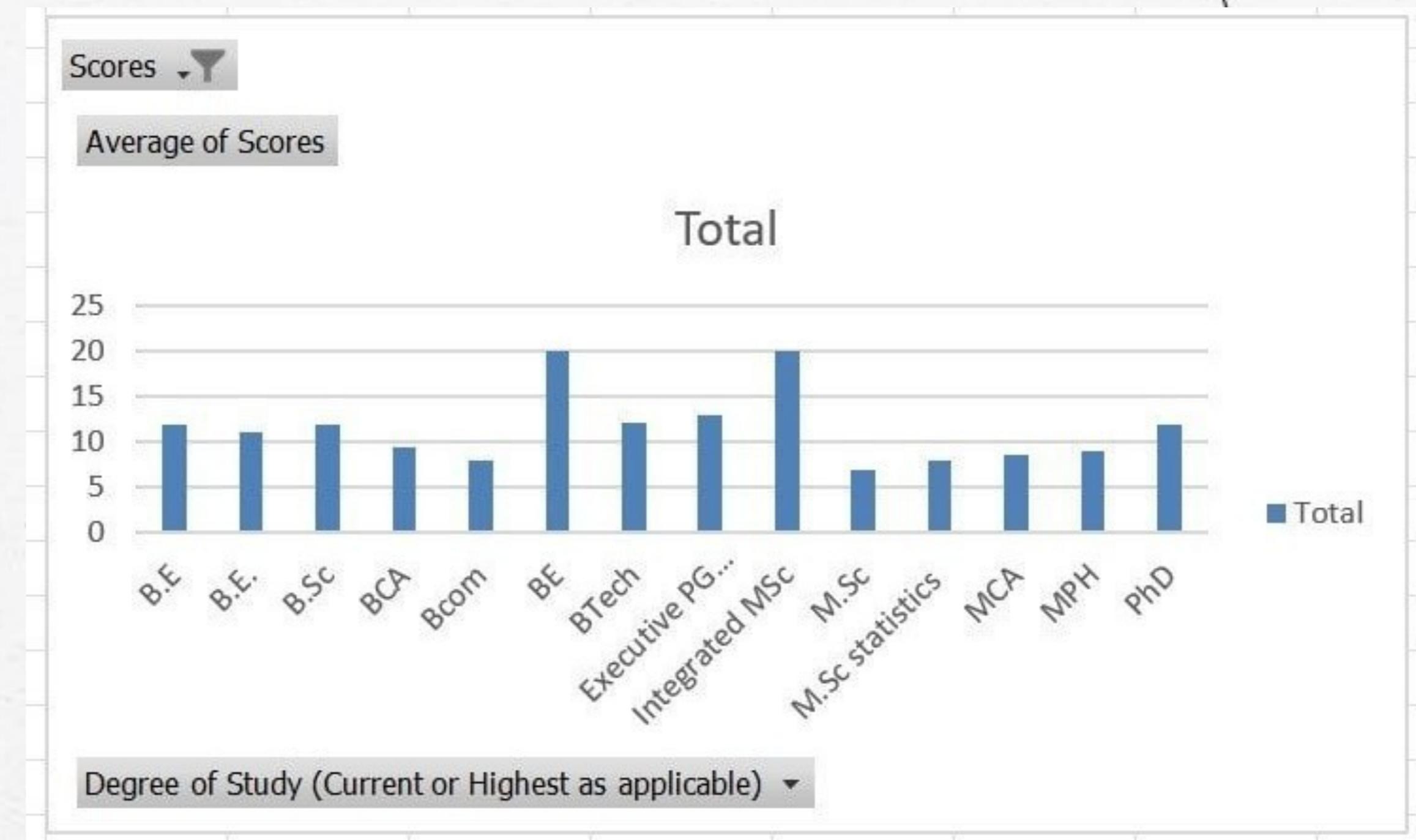
	A	B
1	Scores	(Multiple Items) ▾
2		
3	I am Aspiring ▾	Average of Scores
4	Data Analyst	10.4
5	Data Scientist	11.84210526
6	Intrested to learn	11
7	Not Decided Yet	12.42857143
8	Grand Total	11.54054054



Task 3:-

Create a Pivot table for displaying degree and there average scores for only those who submitted test

A	B
Scores	(Multiple Items) ▾
Degree of Study	▼ Average of Scores
B.E.	12.05
B.E.	12.05
B.Sc	12.05
BCA	9.333333333333333
Bcom	8.666666666666667
BE	20.0
BTech	12.05
Executive PG (current)	12.05
Integrated MSc	20.0
M.Sc	7.0
M.Sc statistics	8.666666666666667
MCA	8.666666666666667
MPH	9.333333333333333
PhD	12.05
Grand Total	11.54054054054054



Task 4:-

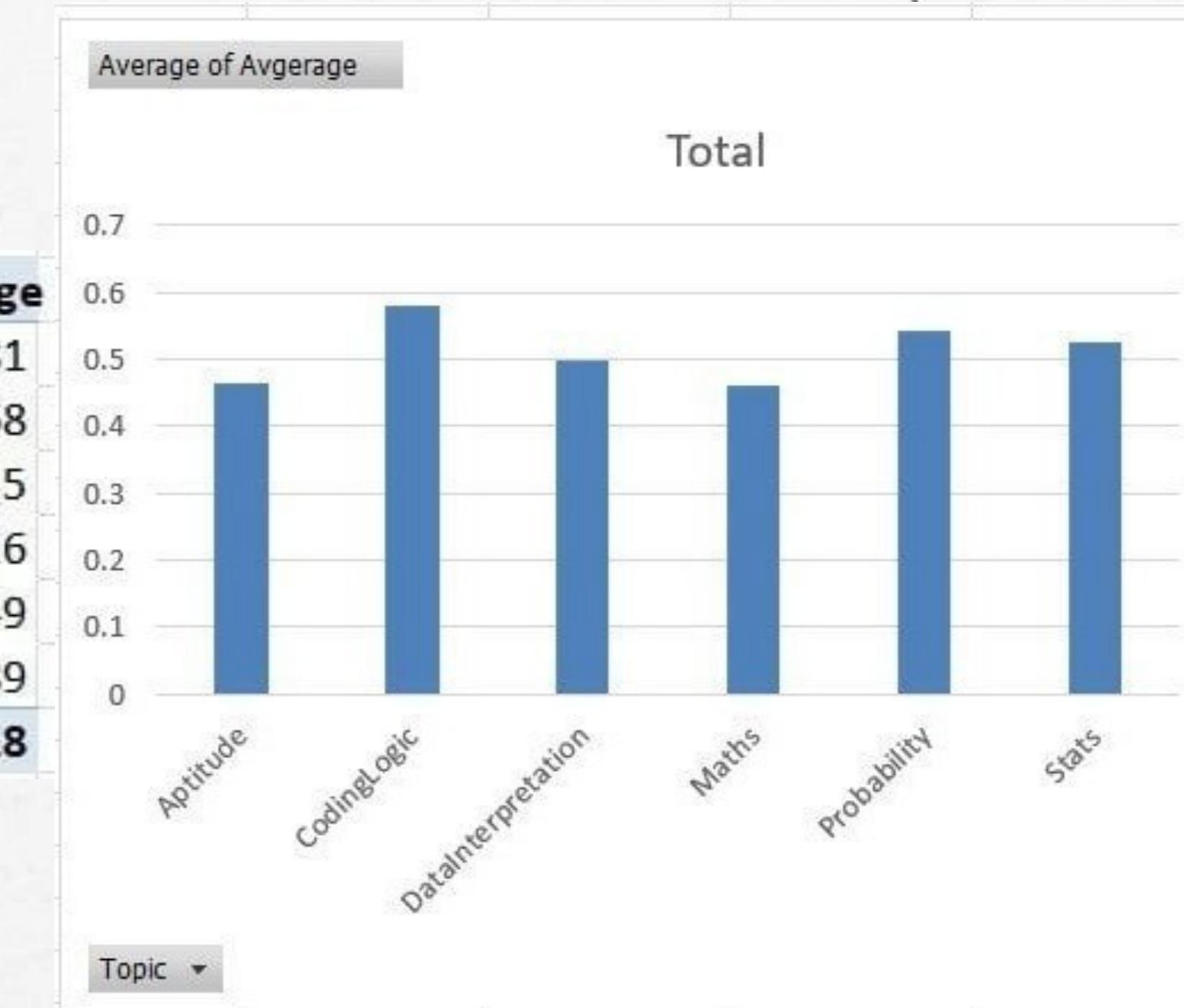
Create a new sheet named "QuestionWiseScores" in Excel where each student's answers are evaluated with 1 mark for a correct answer and 0 for a wrong answer

Task 5:-

Find out average score topic wise

Avgverage	Topic
0.684210526	DataInterpretation
0.5	DataInterpretation
0.447368421	DataInterpretation
0.368421053	DataInterpretation
0.973684211	Maths
0.236842105	Maths
0.210526316	Maths
0.421052632	Maths
0.710526316	Probability
0.657894737	Probability
0.657894737	Probability
0.552631579	Probability
0.473684211	Probability
0.210526316	Probability
0.815789474	Stats
0.447368421	Stats
0.789473684	Stats
0	Stats
0.578947368	Stats
0.578947368	CodingLogic
0.815789474	Aptitude
0.131578947	Aptitude
0.447368421	Aptitude

Topic	Average of Avgverage
Aptitude	0.464912281
CodingLogic	0.578947368
DataInterpretation	0.5
Maths	0.460526316
Probability	0.543859649
Stats	0.526315789
Grand Total	0.509153318



Thank
You!

