



Comprehensive Investment Analysis Dashboard

DATA VISUALIZATION
(USING MICROSOFT EXCEL)



Task 1: Gender Distribution Analysis in Excel

Objective: Analyze the gender distribution within the dataset using Excel.

Steps:

1. Open the dataset in Excel.

Use Excel functions such as COUNTIF or pivot tables to calculate the count or percentage of each gender category.

2. Create a pie chart using the calculated gender distribution data.

3. Label the pie chart segments with the corresponding gender categories.

4. Customize the appearance of the chart, including colors and labels.

5. Add a title and any necessary labels or legends to the chart.

6. Save the Excel file with the pie chart for presentation or inclusion in a report.



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Wrap Text

General

Conditional Formatting

Format as Table

Cell Styles

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Editing

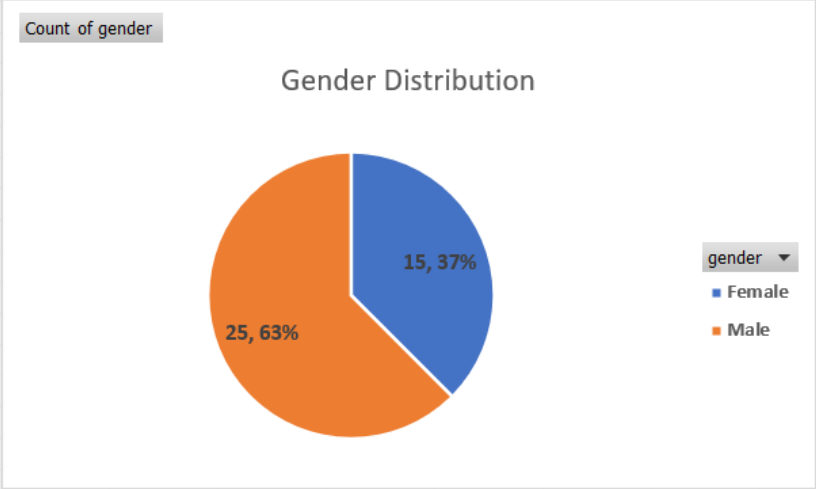
Add-ins

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
1	gender	age	Investment_Av	Mutual_Funds	Equity_Market	Debentures	Government_B	Fixed_Deposits	PPF	Gold	Stock_Markt	Factor	Objective	Purpose	Duration	Invest_Monitor	Expe
2	Female	34	Yes	1	2	5	3	7	6	4	Yes	Returns	Capital Apprecia	Wealth Creation	1-3 years	Monthly	20%
3	Female	23	Yes	4	3	2	1	5	6	7	No	Locking Period	Capital Apprecia	Wealth Creation	More than 5 year	Weekly	20%
4	Male	30	Yes	3	6	4	2	5	1	7	Yes	Returns	Capital Apprecia	Wealth Creation	3-5 years	Daily	20%
5	Male	22	Yes	2	1	3	7	6	4	5	Yes	Returns	Income	Wealth Creation	Less than 1 year	Daily	10%
6	Female	24	No	2	1	3	6	4	5	7	No	Returns	Income	Wealth Creation	Less than 1 year	Daily	20%
7	Female	24	No	7	5	4	6	3	1	2	No	Risk	Capital Apprecia	Wealth Creation	1-3 years	Daily	30%
8	Female	27	Yes	3	6	4	2	5	1	7	Yes	Returns	Capital Apprecia	Wealth Creation	3-5 years	Monthly	20%
9	Male	21	Yes	2	3	7	4	6	1	5	Yes	Risk	Capital Apprecia	Wealth Creation	3-5 years	Monthly	20%
10	Male	35	Yes	2	4	7	5	3	1	6	Yes	Returns	Growth	Savings for Futu	1-3 years	Weekly	20%
11	Male	31	Yes	1	3	7	4	5	2	6	Yes	Returns	Capital Apprecia	Wealth Creation	3-5 years	Monthly	30%
12	Female	35	Yes	2	4	7	5	3	1	6	Yes	Risk	Growth	Savings for Futu	3-5 years	Monthly	20%
13	Male	29	Yes	2	5	7	6	3	1	4	Yes	Risk	Capital Apprecia	Wealth Creation	1-3 years	Monthly	20%
14	Female	21	No	1	2	3	4	5	6	7	No	Returns	Capital Apprecia	Savings for Futu	1-3 years	Weekly	20%
15	Female	28	Yes	2	3	7	4	5	1	6	Yes	Returns	Capital Apprecia	Wealth Creation	1-3 years	Monthly	20%
16	Female	25	Yes	2	3	7	5	4	1	6	Yes	Returns	Capital Apprecia	Wealth Creation	1-3 years	Monthly	20%
17	Male	27	Yes	2	3	7	5	4	1	6	Yes	Returns	Capital Apprecia	Wealth Creation	1-3 years	Monthly	20%
18	Female	28	Yes	3	2	7	5	4	1	6	Yes	Risk	Growth	Wealth Creation	1-3 years	Monthly	20%
19	Male	27	Yes	3	2	7	4	5	1	6	Yes	Returns	Capital Apprecia	Wealth Creation	1-3 years	Monthly	20%
20	Male	29	Yes	3	2	7	4	5	1	6	Yes	Risk	Capital Apprecia	Wealth Creation	1-3 years	Monthly	20%
21	Male	26	Yes	3	4	6	5	1	2	7	Yes	Risk	Capital Apprecia	Wealth Creation	3-5 years	Monthly	20%
22	Male	29	Yes	2	4	7	5	3	1	6	Yes	Returns	Growth	Wealth Creation	3-5 years	Weekly	20%
23	Female	24	Yes	2	4	5	6	3	1	7	Yes	Risk	Capital Apprecia	Wealth Creation	3-5 years	Monthly	20%
24	Male	27	Yes	3	4	6	5	2	1	7	Yes	Returns	Capital Apprecia	Wealth Creation	3-5 years	Monthly	20%
25	Male	25	Yes	2	4	6	5	3	1	7	Yes	Risk	Growth	Savings for Futu	3-5 years	Weekly	20%
26	Female	26	Yes	2	3	7	5	4	1	6	Yes	Returns	Capital Apprecia	Wealth Creation	3-5 years	Monthly	30%
27	Female	32	Yes	3	4	7	5	1	2	6	Yes	Risk	Growth	Wealth Creation	3-5 years	Monthly	20%

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Sheet1Sheet2Sheet3Sheet4Sheet5Sheet6Sheet7Sheet8Sheet9Sheet10Dashb...+

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1																						
2		Row Labels	Count of gender														Row Labels	age				
3		Female	15														21					
4		Male	25														22					
5		Grand Total	40														23					
6																	24					
7		gender															25					
8		Female															26					
9		Male															27					
10																	28					
11																	29					
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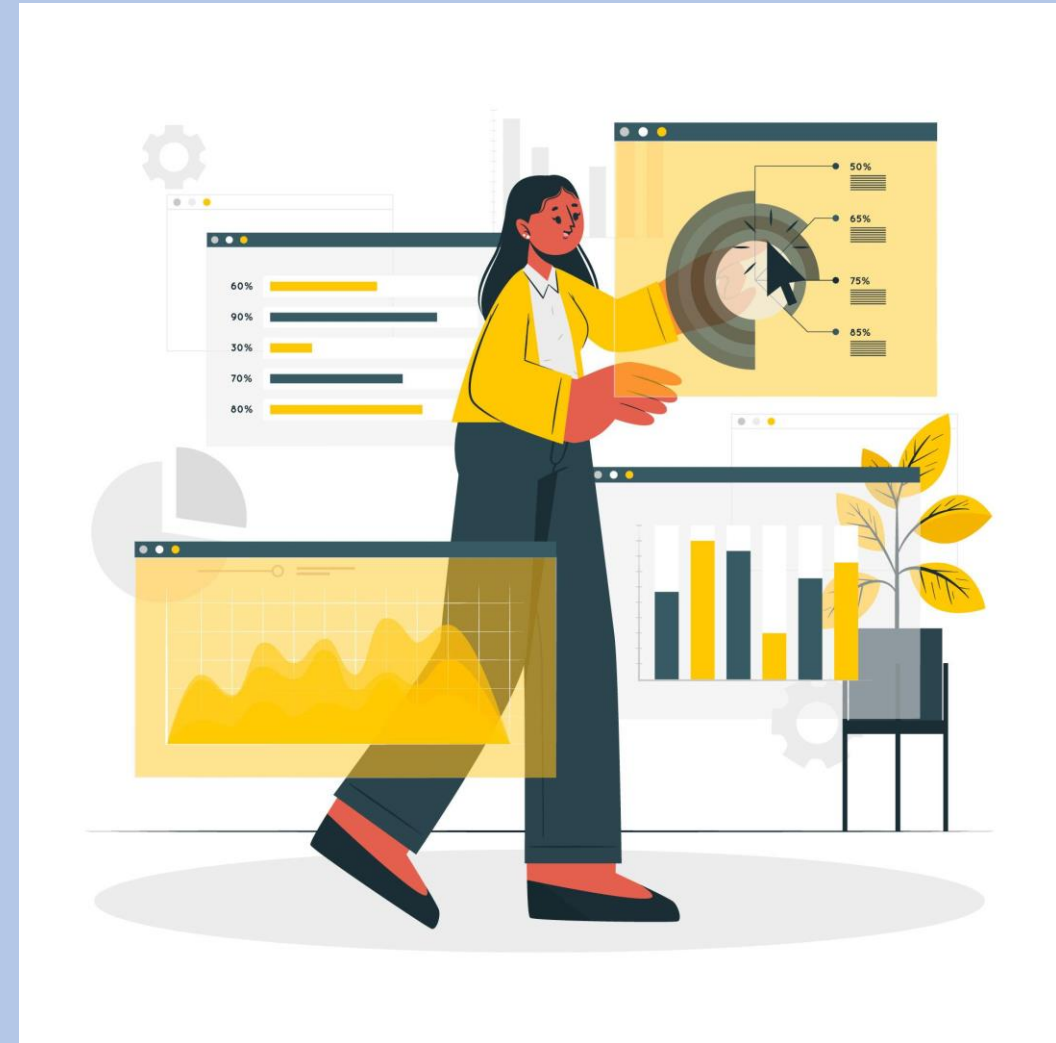


Task 2: Investment Preferences Analysis in Excel

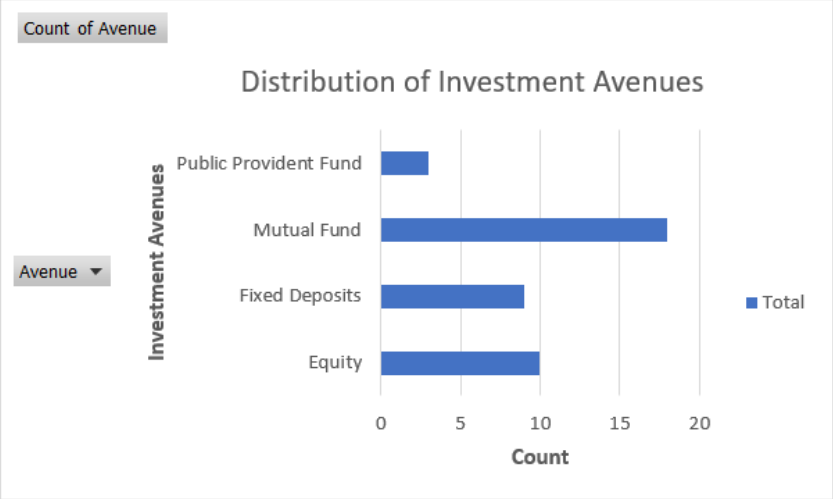
Objective: Analyze participants' investment preferences, including distribution across different avenues and reasons for investment choices using Excel.

Steps : Use pivot tables or Excel functions to summarize the data on investment avenues chosen by participants.

- 1.Create a bar chart to illustrate the distribution of participants across different investment avenues.
- 2.Use pivot tables or Excel functions to summarize the reasons provided by participants for choosing specific investment avenues.
- 3.Create a stacked or grouped bar chart to visualize the reasons for investment choices within each avenue.
- 4.Label the axes, add a title, and any necessary legends or annotations to the charts.
- 5.Customize the appearance of the charts for clarity and aesthetics. Save the Excel file with the visualizations for presentation or inclusion in a report.



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1			Row Labels	Count of Avenue																	
2			Equity	10																	
3			Fixed Deposits	9																	
4			Mutual Fund	18																	
5			Public Provident Fund	3																	
6			Grand Total	40																	
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Count of Avenue	Column Labels												
2		Capital Appreciation												
3		Better Returns												
4		Assured Returns												
5	Row Labels	Fixed Returns	High Interest Rates	Risk Free	Assured Returns Total	Safe Investment	Safe Investment Total		Better Returns Total	Fund Diversification	Assured Returns	Assured Returns Total	Safe Investment	Safe Investment Total
6	Equity		1	3	4		1	1	5		1	1		1
7	Fixed Deposits	2			2				2		1	2	3	1
8	Mutual Fund	2		5	7	2		2	9		1	2	3	
9	Public Provident Fund			1	1	1		1	2					
10	Grand Total	4	1	9	14	3	1	4	18		3	4	7	2
11	<div>Count of Avenue</div> <h3>Reasons for Investment Choices by Avenue</h3> <p>The chart displays the following data series:</p> <ul style="list-style-type: none"> Public Provident Fund: Reason_Equity (1), Reason_Mutual (1), Reason_Bonds (1) Mutual Fund: Reason_Equity (2), Reason_Mutual (5), Reason_Bonds (2), Reason_FD (1), Reason_Equity (2), Reason_Mutual (1), Reason_Bonds (1), Reason_FD (1) Fixed Deposits: Reason_Equity (2), Reason_Mutual (1), Reason_Bonds (3), Reason_FD (1), Reason_Equity (1), Reason_Mutual (1), Reason_Bonds (1) Equity: Reason_Equity (1), Reason_Mutual (3), Reason_Bonds (1), Reason_FD (1), Reason_Equity (1), Reason_Mutual (1), Reason_Bonds (1), Reason_FD (1) 													

Task 3: Objective and Source Analysis in Excel

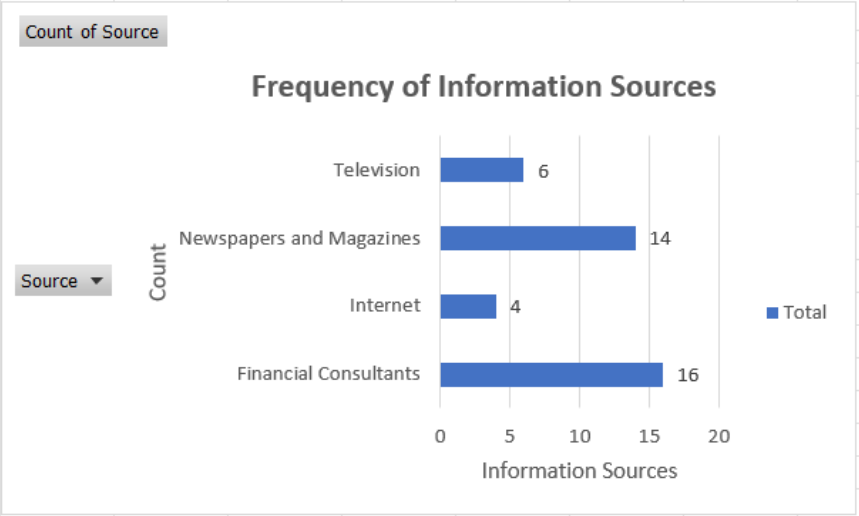
Objective: Analyze participants' savings objectives and common information sources using Excel.

Steps : Use pivot tables or Excel functions to summarize the data on savings objectives stated by participants.

1. Create a donut chart to represent the distribution of savings objectives among participants.
2. Use pivot tables or Excel functions to summarize the data on common information sources used by participants.
3. Create a horizontal bar chart to display the frequency of each information source.
4. Label the charts appropriately and add any necessary legends or annotations.
5. Customize the appearance of the charts for clarity and aesthetics.
6. Save the Excel file with the visualizations for presentation or inclusion in a report.



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1		Row Labels	Count of Source																	
2		Financial Consultants	16																	
3		Internet	4																	
4		Newspapers and Magazines	14																	
5		Television	6																	
6		Grand Total	40																	
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Task 4: Duration and Expectations Analysis in Excel

Objective: Analyze investment durations mentioned by participants and their expectations from investments using Excel.

Steps:

Use pivot tables or Excel functions to summarize the data on investment durations mentioned by participants.

1. Construct a histogram to visualize the distribution of investment durations.

2. Use pivot tables or Excel functions to summarize the data on participants' expectations from their investments.

3. Create a radar chart to illustrate the different expectations participants have.

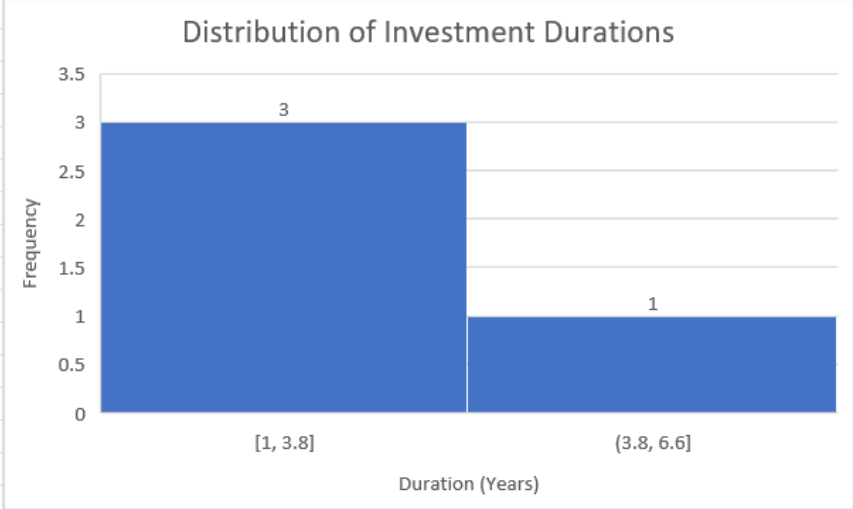
4. Label the axes, add a title, and any necessary legends or annotations to the charts.

5. Customize the appearance of the charts for clarity and aesthetics.

6. Save the Excel file with the visualizations for presentation or inclusion in a report.



	A	B	C	D	E	F	G
1	Investment Duration	Coded Duration			Row Labels	Count of Duration	
2	less than 1 year	1			1-3 years	18	
3	1-3 years	2			3-5 years	19	
4	3-5 years	3			Less than 1 year	2	
5	more than 5 years	4			More than 5 years	1	
6					Grand Total	40	
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Task 5: Correlation Analysis in Excel

Objective: Analyze potential correlations between factors like age, investment duration, and expected returns using Excel.

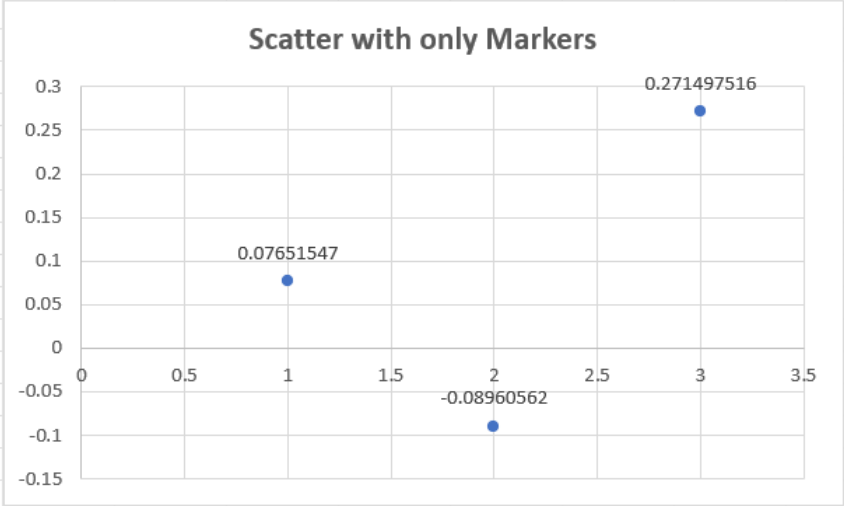
Steps:

Use Excel functions or data analysis tools to calculate correlation coefficients between relevant variables.

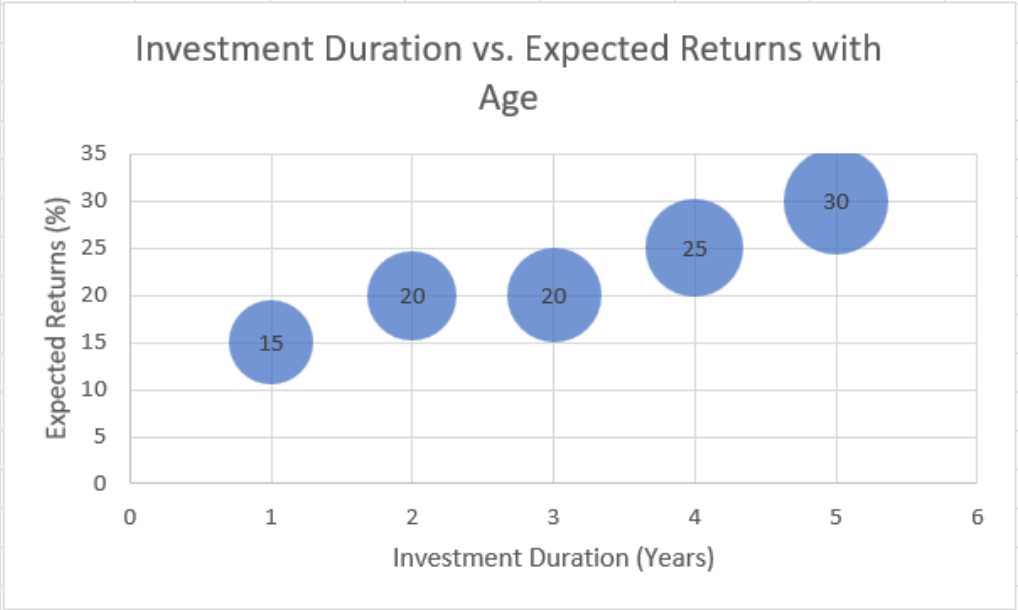
1. Create a scatter plot matrix to visualize potential correlations between age, investment duration, and expected returns.
2. Adjust the size and scale of the scatter plots as needed for clarity.
3. Create a bubble chart to explore the relationship between investment duration and participants' expectations.
4. Label the axes, add a title, and any necessary legends or annotations to the charts.
5. Customize the appearance of the charts for clarity and aesthetics.
6. Save the Excel file with the visualizations for presentation or inclusion in a report.



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Age and Duration	Age and Returns	Duration and Returns																	
2	0.07651547	-0.08960562	0.271497516																	
3																				
4																				
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Investment Duration	Expected Returns	age														
2	2	20	25														
3	4	25	30														
4	1	15	22														
5	5	30	35														
6	3	20	28														
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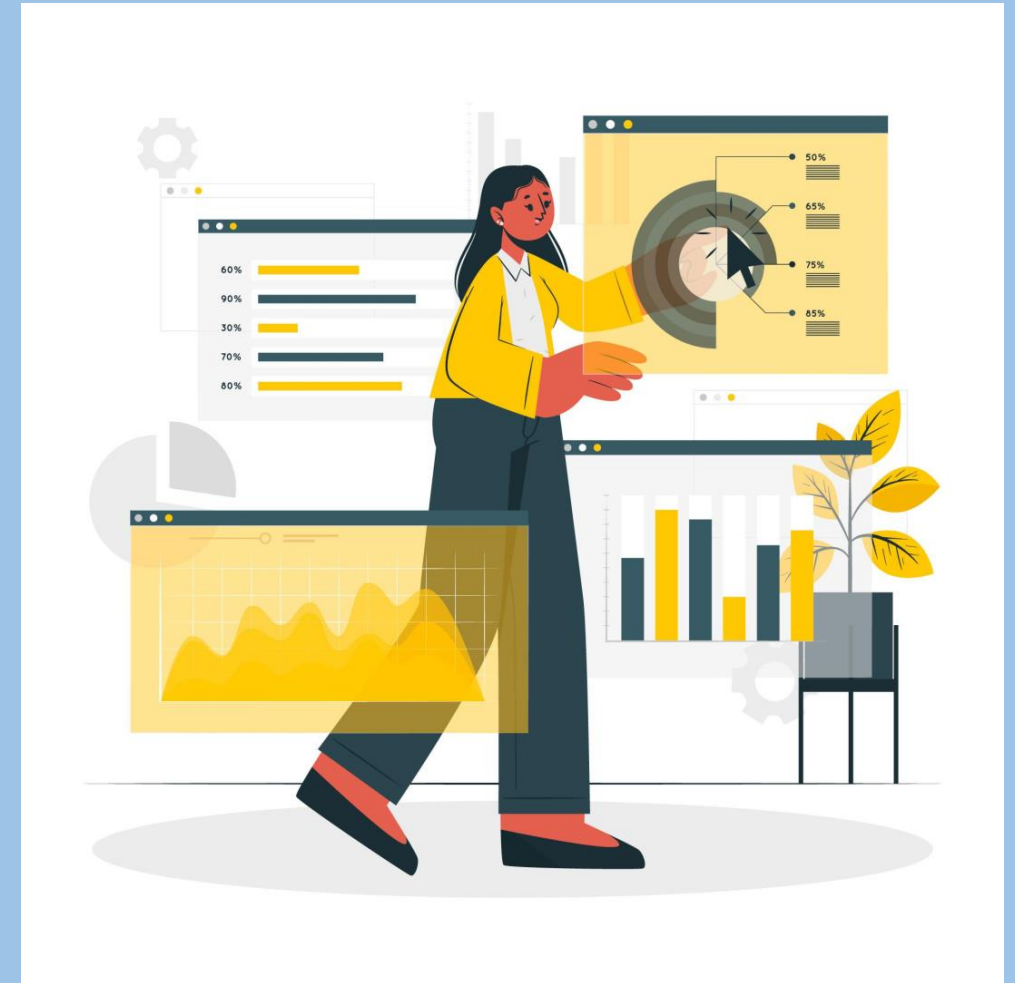
Task 6: Dashboard Creation in Excel

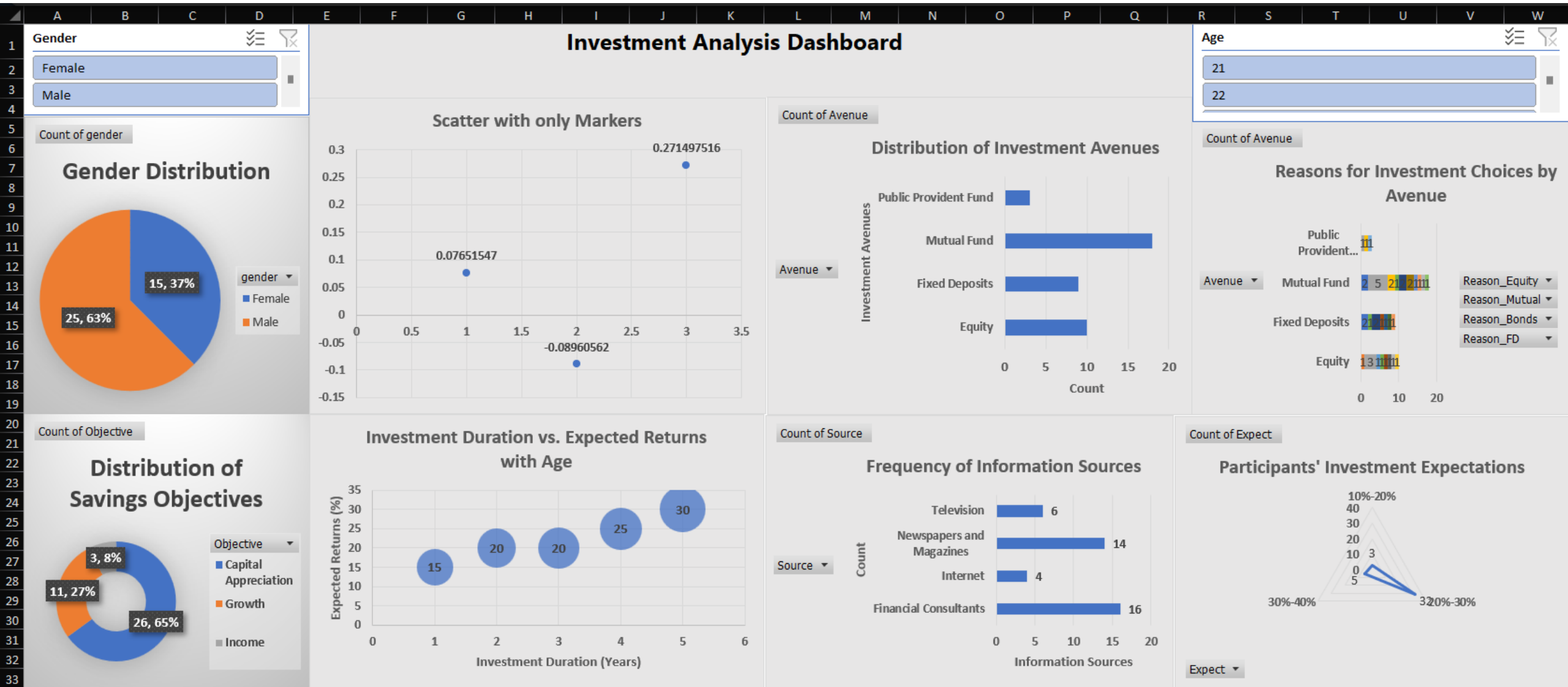
Objective: Combine selected visualizations into an interactive dashboard using Excel features like slicers and charts linked to the dataset.

Steps:

Select the visualizations deemed most informative and relevant for the dashboard.

1. Create individual charts or graphs for each selected visualization. Arrange the visualizations in a logical and aesthetically pleasing layout within the Excel workbook.
2. Add slicers or filters to enable interactive filtering of the data displayed in the dashboard.
3. Link each visualization to the dataset to ensure that updates to the data are reflected in real-time.
4. Customize the appearance of the dashboard, including titles, labels, and formatting.
5. Test the dashboard functionality to ensure all interactive features work as intended.
6. Save the Excel file as a dashboard for distribution or presentation to stakeholders.





Age

21

22

Count of Avenue

Reasons for Investment Choices by Avenue

Avenue	Reason_Equity	Reason_Mutual	Reason_Bonds	Reason_FD
Public Provident Fund	1	1	1	1
Mutual Fund	2	5	21	11
Fixed Deposits	2	1	1	1
Equity	1	3	1	1

Count of Expect

Participants' Investment Expectations

Expectation Range	Count
10%-20%	40
20%-30%	32
30%-40%	3
40%-50%	5

Thanks

