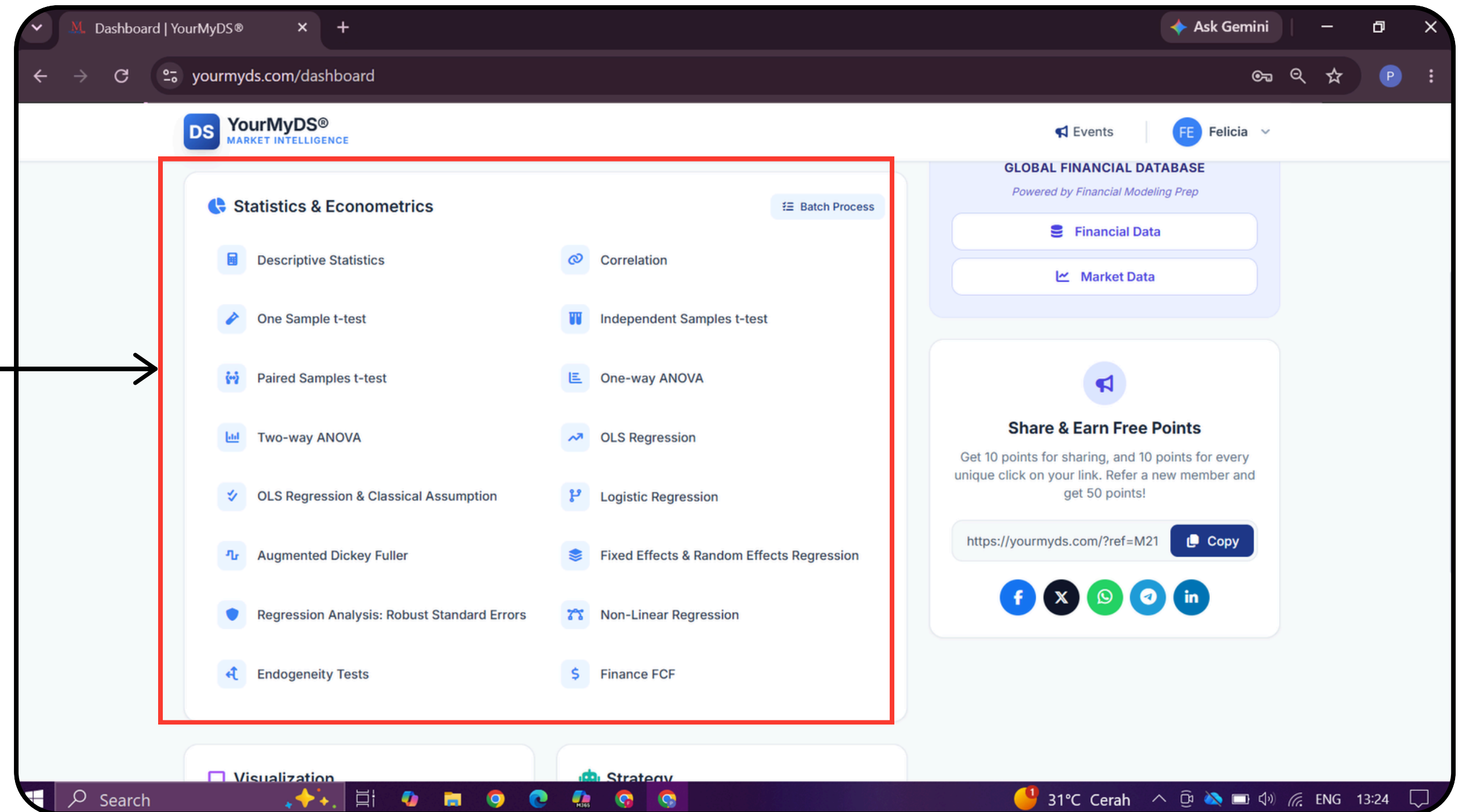


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Financial Data

Market Data

Statistics & Econometrics Batch Process

- Descriptive Statistics
- One Sample t-test
- Paired Samples t-test
- Two-way ANOVA
- OLS Regression & Classical Assumption
- Augmented Dickey Fuller
- Regression Analysis: Robust Standard Errors
- Endogeneity Tests
- Correlation
- Independent Samples t-test
- One-way ANOVA
- OLS Regression
- Logistic Regression
- Fixed Effects & Random Effects Regression
- Non-Linear Regression
- Finance FCF

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Visualization Strategy

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Finance FCF

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Finance FCF

An entrepreneur desires to build a start up by looking for investors who are willing to invest in his idea. In order to appeal the investors, he requires a financial projection to be presented before them. This is the data he has accumulated before calculating the financial projection

- Initial Investment : 5,000,000,000
- Discount Rate : 15%
- Years : 5
- Tax Rate : 20%
- Estimated Revenue (Year 1) : 1,750,000,000
- Revenue Growth (Estimated) : 25%
- Operating Expense : (500,000,000)
- Depreciation Expense : (300,000,000)
- Change in Working Capital : 100,000,000
- Capital Expense : (120,000,000)



Input the information

I. ASSUMPTION (SELECTIVE INPUT)

Initial Investment (IO)

5000000000

Discount Rate (WACC)

0,15

Revenue Growth (Growth)

0,25

Tax

0,2

Number of Years to Forecast

5

Decimal Places for Outputs

2



Finance FCF

II. CASH FLOW PROJECTION (CALCULATION)

	YEAR 0	YEAR 1	YEAR 2	YEAR 3
Revenue (Sales)	0.00	1750000000	2187500000.00	2734375000.00
Operating Expenses (Opex)	0.00	-500000000	-625000000.00	
Depreciation	0.00	-300000000	-300000000.00	
Earnings before Tax (EBT)	0.00	950000000.00	1262500000.00	1653125000.00
Tax	0.00	190000000.00	252500000.00	330625000.00
Net Income	0.00	760000000.00	1010000000.00	1322500000.00
Add-back: Depreciation & Amortization	0.00	300000000.00	300000000.00	300000000.00
Change in Net Working Capital	0	100000000		
Capital Expenditure	0	-120000000		
Net Borrowing	0			
<u>Free Cash Flow</u>	-5000000000.00	1040000000.00	1310000000.00	1622500000.00

Input the information

Input the information

Projected Cash
Flow



Financial Projection and Matrics

III. DISCOUNTING PROCESS

	YEAR 0	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
Discount Factor (DF)	1.000000	0.869565	0.756144	0.657516	0.571753	0.497177
Present Value (PV) of Cash Flow	-5000000000.00	904347826.09	990548204.16	1066820087.12	1151010752.53	1243640993.03

IV. FINANCIAL METRICS OUTPUT

Total PV of Future Cash Flows	5356367862.93
Net Present Value (NPV)	356367862.93
Internal Rate of Return (IRR)	0.1755
Profitability Index (PI)	1.0713



Projected Capital Budgeting and Investment Decision

V. INVESTMENT DECISION

based on NPV

Accept

based on IRR

Accept

based on PI

Accept

	INITIAL INVESTMENT	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
FCF	-5000000000.00	1040000000.00	1310000000.00	1622500000.00	2013125000.00	2501406250.00
Cummulative	-5000000000.00	-3960000000.00	-2650000000.00	-1027500000.00	985625000.00	3487031250.00
Payback Period				3.51		

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I. ASSUMPTION (SELECTIVE INPUT)

Initial Investment (IO)	5000000000
Discount Rate (WACC)	0,15
Revenue Growth (Growth)	0,25
Tax	0,2

Number of Years to Forecast: 5

Decimal Places for Outputs: 2

II. CASH FLOW PROJECTION (CALCULATION)

	YEAR 0	YEAR 1	YEAR 2	YEAR 3

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Finance FCF

Result in Excel

	A	B	C	D	E	F	G
1	I. ASSUMPTION (SELECTIVE INPUT)						
2	Initial Investment (IO)	5,000,000,000					
3	Discount Rate (WACC)	0.15					
4	Revenue Growth (Growth)	0.25					
5	Tax	0.2					
6							
7	II. CASH FLOW PROJECTION (CALCULATION)						
8		Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
9	Revenue (Sales)	0	1,750,000,000	2,187,500,000	2,734,375,000	3,417,968,750	4,272,460,938
10	Operating Expenses (Opex)	0	- 500,000,000	- 625,000,000	- 781,250,000	- 976,562,500	- 1,220,703,125
11	Depreciation	0	- 300,000,000	- 300,000,000	- 300,000,000	- 300,000,000	- 300,000,000
12	Earnings before Tax (EBT)	0	950,000,000	1,262,500,000	1,653,125,000	2,141,406,250	2,751,757,813
13	Tax	0	190,000,000	252,500,000	330,625,000	428,281,250	550,351,563
14	Net Income	0	760,000,000	1,010,000,000	1,322,500,000	1,713,125,000	2,201,406,250
15	Add-back: Depreciation & Amortization	0	300,000,000	300,000,000	300,000,000	300,000,000	300,000,000
16	Change in Net Working Capital	0	100,000,000				
17	Capital Expenditure	0	- 120,000,000				
18	Net Borrowing	0					
19	Free Cash Flow	-5000000000	1,040,000,000	1,310,000,000	1,622,500,000	2,013,125,000	2,501,406,250



Finance FCF

Result in Excel

	A	B	C	D	E	F	G
21	III. DISCOUNTING PROCESS						
22		Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
23	Discount Factor (DF)	1	1	1	1	1	0
24	Present Value (PV) of Cash Flow	-5000000000	904,347,826	990,548,204	1,066,820,087	1,151,010,753	1,243,640,993
25							
26	IV. Financial Metrics Output						
27	Total PV of Future Cash Flows	5356367863					
28	Net Present Value (NPV)	356367862.9					
29	Internal Rate of Return (IRR)	0.1755					
30	Profitability Index (PI)	1.0713					
31							
32	V. Investment Decision						
33	based on NPV	Accept					
34	based on IRR	Accept					
35	based on PI	Accept					
36							
37		Initial investment	Year 1	Year 2	Year 3	Year 4	Year 5
38	FCF	-5000000000	1,040,000,000	1,310,000,000	1,622,500,000	2,013,125,000	2,501,406,250
39	Cummulative	-5000000000	- 3,960,000,000	- 2,650,000,000	- 1,027,500,000	985,625,000	3,487,031,250
40	Payback Period				3.51		