

PROJECT 1

Historical Financial Statement for TATA Motors Ltd.

Objective:

This project entailed gathering historical financial data for Tata Motors Ltd from Screener to build an integrated 3-statement financial model. By linking the data to the main spreadsheet, I created dynamic income, balance sheet, and cash flow statements, establishing a solid foundation for further analysis, including ratio analysis and forecasting.

Methodology:

1. Gathered historical financial data for Tata Motors Ltd from Screener, encompassing key financial metrics across several years.
2. Organized a new sheet following industry standards, incorporating the format for each financial statement.
3. Used fundamental excel functions such as cell referencing and the IFERROR function to create dynamic financial statements linked to the main data sheet, enabling easy future updates.
4. Verified the financial data for accuracy by cross-referencing it with official financial reports.
5. Performed final formatting to enhance the presentation for effective future analysis.

Skills Demonstrated:

This project familiarized me with fundamental Excel functions essential for financial modelling, data structuring, and creating organized, industry-standard financial statements.

Outcomes:

Worked with real-life data to create dynamic financial statements that update automatically, laying the groundwork for advanced financial analysis, including ratio analysis and forecasting.

Income Statement for Tata Motors Ltd

	Historical Financial Statement - TATA MOTORS LTD											
	Years	Mar-15	Mar-16	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24	LTM
#	Income Statement											
6	Sales	₹ 2,63,158.98	₹ 2,73,045.60	₹ 2,69,692.51	₹ 2,91,550.48	₹ 3,01,938.40	₹ 2,61,067.97	₹ 2,49,794.75	₹ 2,78,453.62	₹ 3,45,966.97	₹ 4,37,927.77	₹ 4,40,061.14
7	Sales Growth	-	3.76%	-1.23%	8.10%	3.56%	-13.54%	-4.32%	11.47%	24.25%	26.58%	0.49%
9	COGS	₹ 2,05,547.82	₹ 2,06,928.27	₹ 2,10,365.22	₹ 2,28,568.34	₹ 2,37,250.14	₹ 2,10,745.99	₹ 2,01,332.26	₹ 2,34,978.13	₹ 2,40,748.94	₹ 2,92,065.15	₹ 3,79,563.77
10	COGS % Sales	78.11%	75.79%	78.00%	78.40%	78.58%	80.72%	80.60%	84.39%	69.59%	66.69%	86.25%
12	Gross Profit	₹ 57,611.16	₹ 66,117.33	₹ 59,327.29	₹ 62,982.14	₹ 64,688.26	₹ 50,321.98	₹ 48,462.49	₹ 43,475.49	₹ 1,05,218.03	₹ 1,45,862.62	₹ 60,497.37
13	Gross Margin	21.89%	24.21%	22.00%	21.60%	21.42%	19.28%	19.40%	15.61%	30.41%	33.31%	13.75%
15	Selling & General Expenses	₹ 34,649.58	₹ 31,662.97	₹ 34,428.54	₹ 32,704.83	₹ 22,181.28	₹ 30,433.52	₹ 39,747.53	₹ 43,837.64	₹ 0.00	₹ 0.00	₹ 0.00
16	S&G Exp % Sales	13.17%	11.60%	12.77%	11.22%	7.35%	11.66%	15.91%	15.74%	0.00%	0.00%	0.00%
18	EBITDA	₹ 22,961.58	₹ 34,454.36	₹ 24,898.75	₹ 30,277.31	₹ 42,506.98	₹ 19,888.46	₹ 8,714.96	₹ -362.15	₹ 1,05,218.03	₹ 1,45,862.62	₹ 60,497.37
19	EBITDA % Sales	8.73%	12.62%	9.23%	10.38%	14.08%	7.62%	3.49%	-0.13%	30.41%	33.31%	13.75%
21	Interest	₹ 4,861.49	₹ 4,889.08	₹ 4,238.01	₹ 4,681.79	₹ 5,758.60	₹ 7,243.33	₹ 8,097.17	₹ 9,311.86	₹ 10,225.48	₹ 9,985.76	₹ 8,840.91
22	Interest % Sales	1.85%	1.79%	1.57%	1.61%	1.91%	2.77%	3.24%	3.34%	2.96%	2.28%	2.01%
24	Depreciation	₹ 17,904.99	₹ 21,553.59	₹ 23,590.63	₹ 21,425.43	₹ 23,546.71	₹ 24,835.69	₹ 24,860.36	₹ 27,270.13	₹ 0.00	₹ 0.00	₹ 26,580.00
25	Depreciation % Sales	6.80%	7.89%	8.75%	7.35%	7.80%	9.51%	9.95%	9.79%	0.00%	0.00%	6.04%
27	Earnings Before Tax	₹ 195.10	₹ 8,011.69	₹ -2,929.89	₹ 4,170.09	₹ 13,201.67	₹ -12,190.56	₹ -24,242.57	₹ -36,944.14	₹ 94,992.55	₹ 1,35,876.86	₹ 25,076.46
28	EBT % Sales	0.07%	2.93%	-1.09%	1.43%	4.37%	-4.67%	-9.70%	-13.27%	27.46%	31.03%	5.70%
30	Tax	₹ 262.83	(₹ 620.65)	₹ 1,563.00	₹ 2,203.00	₹ 541.79	(₹ 8,160.00)	₹ 3,178.00	₹ 2,317.00	₹ 0.00	₹ 0.00	(₹ 2,123.21)
31	Effective Tax Rate	134.72%	-7.75%	-53.35%	52.83%	4.10%	66.94%	-13.11%	-6.27%	0.00%	0.00%	-8.47%
33	Net Profit	(₹ 67.73)	₹ 8,632.34	(₹ 4,492.89)	₹ 1,967.09	₹ 12,659.88	(₹ 4,030.56)	(₹ 27,420.57)	(₹ 39,261.14)	₹ 94,992.55	₹ 1,35,876.86	₹ 27,199.67
34	Net Margins	-0.03%	3.16%	-1.67%	0.67%	4.19%	-1.54%	-10.98%	-14.10%	27.46%	31.03%	6.18%
36	No of Equity Shares	₹ 288.74	₹ 288.72	₹ 288.73	₹ 288.73	₹ 288.73	₹ 308.90	₹ 332.03	₹ 332.07	₹ 332.13	₹ 332.37	₹ 332.37
38	Earnings Per Share	(₹ 0.23)	₹ 29.90	(₹ 15.56)	₹ 6.81	₹ 43.85	(₹ 13.05)	(₹ 82.58)	(₹ 118.23)	₹ 286.01	₹ 408.81	₹ 81.84
39	EPS Growth %		-12846.11%	-152.05%	-143.78%	543.58%	-129.76%	532.92%	43.16%	-341.91%	42.94%	-79.98%
41	Dividend Per Share	₹ 0.00	₹ 0.24	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 2.31	₹ 6.92	₹ 0.00
42	Dividend Payout Ratio	0.00%	0.79%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.81%	1.69%	0.00%
44	Retained Earnings	0.00%	99.21%	0.00%	100.00%	100.00%	0.00%	0.00%	0.00%	99.19%	98.31%	100.00%

Balance Sheet for Tata Motors Ltd

[illegible]

Cash Flow Statement for Tata Motors Ltd

	Historical Financial Statement - TATA MOTORS LTD									
Years	Mar-15	Mar-16	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
# Cash Flow Stataement										
Operating Activities										
Profit from operations	₹ 43,397.00	₹ 38,626.00	₹ 28,840.00	₹ 33,312.00	₹ 28,771.00	₹ 23,352.00	₹ 31,198.00	₹ 26,943.00	₹ 41,694.00	₹ 65,106.00
Receivables	(₹ 3,179.00)	(₹ 2,223.00)	(₹ 4,152.00)	(₹ 10,688.00)	(₹ 9,109.00)	₹ 9,950.00	(₹ 5,505.00)	₹ 185.00	(₹ 2,213.00)	(₹ 1,875.00)
Inventory	(₹ 3,692.00)	(₹ 5,743.00)	(₹ 6,621.00)	(₹ 3,560.00)	₹ 2,069.00	₹ 2,326.00	₹ 3,814.00	₹ 472.00	(₹ 5,665.00)	(₹ 7,265.00)
Payables	₹ 3,598.00	₹ 3,947.00	₹ 9,301.00	₹ 7,320.00	(₹ 4,692.00)	(₹ 8,085.00)	₹ 5,748.00	(₹ 7,012.00)	₹ 6,945.00	₹ 13,706.00
Loans Advances	₹ 0.00	(₹ 520.00)	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00
Other WC items	(₹ 398.00)	₹ 5,852.00	₹ 4,727.00	₹ 494.00	₹ 4,512.00	₹ 875.00	(₹ 4,150.00)	(₹ 4,396.00)	(₹ 2,194.00)	₹ 2,760.00
Working capital changes	(₹ 3,672.00)	₹ 1,313.00	₹ 3,254.00	(₹ 6,434.00)	(₹ 7,221.00)	₹ 5,065.00	(₹ 93.00)	(₹ 10,750.00)	(₹ 3,127.00)	₹ 7,325.00
Direct taxes	(₹ 4,194.00)	(₹ 2,040.00)	(₹ 1,895.00)	(₹ 3,021.00)	(₹ 2,659.00)	(₹ 1,785.00)	(₹ 2,105.00)	(₹ 1,910.00)	(₹ 3,179.00)	(₹ 4,516.00)
Cash From Operating Activities	₹ 31,860.00	₹ 39,212.00	₹ 33,454.00	₹ 17,423.00	₹ 11,671.00	₹ 31,698.00	₹ 28,907.00	₹ 3,532.00	₹ 32,261.00	₹ 75,241.00
Investing Activity										
Fixed assets purchased	(₹ 31,962.00)	(₹ 31,503.00)	(₹ 16,072.00)	(₹ 35,079.00)	(₹ 35,304.00)	(₹ 29,702.00)	(₹ 20,205.00)	(₹ 15,168.00)	(₹ 19,230.00)	(₹ 31,414.00)
Fixed assets sold	₹ 74.00	₹ 59.00	₹ 53.00	₹ 30.00	₹ 67.00	₹ 171.00	₹ 351.00	₹ 230.00	₹ 285.00	₹ 231.00
Investments purchased	(₹ 5,461.00)	(₹ 4,728.00)	(₹ 6.00)	(₹ 329.00)	(₹ 130.00)	(₹ 1,439.00)	(₹ 7,530.00)	(₹ 3,008.00)	(₹ 50.00)	(₹ 74.00)
Investments sold	₹ 42.00	₹ 89.00	₹ 1,965.00	₹ 2,381.00	₹ 5,644.00	₹ 21.00	₹ 226.00	₹ 104.00	₹ 6,895.00	₹ 10,820.00
Interest received	₹ 698.00	₹ 731.00	₹ 638.00	₹ 690.00	₹ 761.00	₹ 1,104.00	₹ 428.00	₹ 653.00	₹ 973.00	₹ 2,493.00
Dividends received	₹ 80.00	₹ 58.00	₹ 620.00	₹ 1,797.00	₹ 232.00	₹ 21.00	₹ 18.00	₹ 32.00	₹ 46.00	₹ 47.00
Investment in group cos	(₹ 160.00)	₹ 0.00	(₹ 107.00)	(₹ 4.00)	(₹ 9.00)	(₹ 606.00)	(₹ 10.00)	₹ 0.00	₹ 0.00	(₹ 150.00)
Redemp n Canc of Shares	₹ 0.00	₹ 0.00	₹ 0.00	₹ 14.00	₹ 533.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 19.00	₹ 108.00
Acquisition of companies	₹ 0.00	(₹ 111.00)	₹ 0.00	₹ 0.00	(₹ 8.00)	(₹ 27.00)	₹ 0.00	(₹ 98.00)	₹ 0.00	₹ 0.00
Inter corporate deposits	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	(₹ 24.00)
Other investing items	₹ 456.00	(₹ 1,289.00)	(₹ 26,663.00)	₹ 5,360.00	₹ 7,335.00	(₹ 2,659.00)	₹ 1,051.00	₹ 12,813.00	(₹ 4,357.00)	(₹ 4,817.00)
Cash From Investing Activity	(₹ 36,233.00)	(₹ 36,694.00)	(₹ 39,572.00)	(₹ 25,140.00)	(₹ 20,879.00)	(₹ 33,116.00)	(₹ 25,671.00)	(₹ 4,442.00)	(₹ 15,419.00)	(₹ 22,780.00)
Financing Activity										
Proceeds from shares	₹ 0.00	₹ 7,433.00	₹ 5.00	₹ 0.00	₹ 0.00	₹ 3,889.00	₹ 2,603.00	₹ 19.00	₹ 20.00	₹ 82.00
Redemption of debentures	(₹ 744.00)	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00
Proceeds from borrowings	₹ 36,363.00	₹ 19,519.00	₹ 33,390.00	₹ 37,482.00	₹ 51,128.00	₹ 38,297.00	₹ 46,641.00	₹ 46,578.00	₹ 43,934.00	₹ 18,747.00
Repayment of borrowings	(₹ 23,332.00)	(₹ 24,924.00)	(₹ 21,732.00)	(₹ 29,964.00)	(₹ 35,198.00)	(₹ 29,847.00)	(₹ 29,709.00)	(₹ 42,816.00)	(₹ 62,557.00)	(₹ 47,332.00)
Interest paid fin	(₹ 6,307.00)	(₹ 5,716.00)	(₹ 5,336.00)	(₹ 5,411.00)	(₹ 7,005.00)	(₹ 7,518.00)	(₹ 8,123.00)	(₹ 9,251.00)	(₹ 9,336.00)	(₹ 9,332.00)
Dividends paid	(₹ 720.00)	(₹ 108.00)	(₹ 121.00)	(₹ 96.00)	(₹ 95.00)	(₹ 57.00)	(₹ 30.00)	(₹ 100.00)	(₹ 141.00)	(₹ 1,059.00)
Financial liabilities	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	(₹ 1,346.00)	(₹ 1,477.00)	(₹ 1,559.00)	(₹ 1,517.00)	(₹ 1,924.00)
Other financing items	(₹ 57.00)	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	(₹ 29.00)	₹ 0.00	₹ 3,750.00	₹ 3,355.00	₹ 3,812.00
Cash From Financing Activity	₹ 5,203.00	(₹ 3,796.00)	₹ 6,206.00	₹ 2,011.00	₹ 8,830.00	₹ 3,389.00	₹ 9,905.00	(₹ 3,379.00)	(₹ 26,242.00)	(₹ 37,006.00)
Net Cash Flow	₹ 830.00	(₹ 1,278.00)	₹ 88.00	(₹ 5,706.00)	(₹ 378.00)	₹ 1,971.00	₹ 13,141.00	(₹ 4,289.00)	(₹ 9,400.00)	₹ 15,455.00

Data Sheet from Screener

COMPANY NAME	TATA MOTORS LTD	PLEASE DO NOT MAKE ANY CHANGES TO THIS SHEET
LATEST VERSION	2.10	
CURRENT VERSION	2.10	
META		
Number of shares	368.10	
Face Value	2	
Current Price	786.45	
Market Capitalization	289491.6	

PROFIT & LOSS										
Report Date	Mar-15	Mar-16	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
Sales	263158.98	273045.6	269692.51	291550.48	301938.4	261067.97	249794.75	278453.62	345966.97	437927.77
Raw Material Cost	163250.36	166134.01	173294.08	187896.58	194267.91	164899.82	153607.36	179295.33	231251.26	274321.23
Change in Inventory	3330.35	2750.99	7399.92	2046.58	-2053.28	-2231.19	-4684.16	-1590.49	4781.62	1565.53
Power and Fuel	1121.75	1143.63	1159.82	1308.08	1585.93	1264.95	1112.87	2178.29	2513.33	2195.12
Other Mfr. Exp	16173.17	12101.53	10067.37	10971.66	11694.54	11541.51	8273.17	9427.38	11765.97	17114.33
Employee Cost	25641.95	28880.89	28332.89	30300.09	33243.87	30438.6	27648.48	30808.52	33654.7	42486.64
Selling and admin	23603.01	21991.9	30039.38	31004.58	32719.8	29248.32	23015.79	29205.4	34839.19	42765.33
Other Expenses	-2539.56	7149.38	4610.2	658.39	1708.74	3456.51	-834.51	1228.12	4908.34	1072.31
Other Income	714.03	-2669.62	1869.1	5932.73	-26686.25	101.71	-11117.83	2424.05	6663.97	5672.66
Depreciation	13388.63	16710.78	17904.99	21553.59	23590.63	21425.43	23546.71	24835.69	24860.36	27270.13
Interest	4861.49	4889.08	4238.01	4681.79	5758.6	7243.33	8097.17	9311.86	10225.48	9985.76
Profit before tax	21702.56	14125.77	9314.79	11155.03	-31371.15	-10579.98	-10474.28	-7003.41	3393.93	27955.11
Tax	7642.91	3025.05	3251.23	4341.93	-2437.45	395.25	2541.86	4231.29	704.06	-3851.64
Net profit	13986.29	11579.31	7454.36	8988.91	-28826.23	-12070.85	-13451.39	-11441.47	2414.29	31399.09
Dividend Amount		67.92							766.02	2299.5

Quarters										
Report Date	Jun-22	Sep-22	Dec-22	Mar-23	Jun-23	Sep-23	Dec-23	Mar-24	Jun-24	Sep-24
Sales	71934.66	79611.37	88488.59	105932.35	102236	105129	110577.14	119986	108048	101450
Expenses	69521.93	74039.06	77668.35	92817.95	89019	91362	95158.77	102851	92263	89291
Other Income	2380.98	1351.14	1129.98	1452.86	895	1557	1603.76	1619	1747	1647
Depreciation	5841.04	5897.34	6071.78	7050.2	6633	6637	6850	7151	6574	6005
Interest	2420.72	2487.26	2675.83	2641.67	2615	2652	2484.91	2234	2088	2034
Profit before tax	-3468.05	-1461.15	3202.61	4875.39	4864	6035	7687.22	9369	8870	5767
Tax	1518.96	-457.08	262.83	-620.65	1563	2203	541.79	-8160	3178	2317
Net profit	-5006.6	-944.61	2957.71	5407.79	3203	3764	7025.11	17407	5566	3343
Operating Profit	2412.73	5572.31	10820.24	13114.4	13217	13767	15418.37	17135	15785	12159

Data Sheet from Screener

BALANCE SHEET

Report Date	Mar-15	Mar-16	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
Equity Share Capital	643.78	679.18	679.22	679.22	679.22	719.54	765.81	765.88	766.02	766.5
Reserves	55618.14	78273.23	57382.67	94748.69	59500.34	62358.99	54480.91	43795.36	44555.77	84151.52
Borrowings	73610.39	69359.96	78603.98	88950.47	106175.34	124787.64	142130.57	146449.03	134113.44	107262.5
Other Liabilities	107442.48	114871.75	135914.49	142813.43	139348.59	132313.22	144192.62	138051.22	155239.2	177340.09
Total	237314.79	263184.12	272580.36	327191.81	305703.49	320179.39	341569.91	329061.49	334674.43	369520.61
Net Block	88479.49	107231.76	95944.08	121413.86	111234.47	127107.14	138707.61	138855.45	132079.76	121285.46
Capital Work in Progress	28640.09	25918.94	33698.84	40033.5	31883.84	35622.29	20963.93	10251.09	14274.5	35698.43
Investments	15336.74	23767.02	20337.92	20812.75	15770.72	16308.48	24620.28	29379.53	26379.16	22971.07
Other Assets	104858.47	106266.4	122599.52	144931.7	146814.46	141141.48	157278.09	150575.42	161941.01	189565.65
Total	237314.79	263184.12	272580.36	327191.81	305703.49	320179.39	341569.91	329061.49	334674.43	369520.61
Receivables	12579.2	13570.91	14075.55	19893.3	18996.17	11172.69	12679.08	12442.12	15737.97	16951.81
Inventory	29272.34	32655.73	35085.31	42137.63	39013.73	37456.88	36088.59	35240.34	40755.39	47788.29
Cash & Bank	32115.76	30460.4	36077.88	34613.91	32648.82	33726.97	46792.46	40669.19	37015.56	45806.69
No. of Equity Shares	3218930067	3395930306	3396100719	3396100719	3396100719	3597726185	3829060661	3829414903	3830097221	3832491897
New Bonus Shares										
Face value	2	2	2	2	2	2	2	2	2	2

CASH FLOW:

Report Date	Mar-15	Mar-16	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
Cash from Operating Activity	35531.26	37899.54	30199.25	23857.42	18890.75	26632.94	29000.51	14282.83	35388.01	67915.36
Cash from Investing Activity	-36232.35	-36693.9	-39571.4	-25139.14	-20878.07	-33114.55	-25672.5	-4443.66	-15417.17	-22781.56
Cash from Financing Activity	5201.44	-3795.12	6205.3	2011.71	8830.37	3389.61	9904.2	-3380.17	-26242.9	-37005.99
Net Cash Flow	4500.35	-2589.48	-3166.85	729.99	6843.05	-3092	13232.21	6459	-6272.06	8127.81

PRICE: 544.37 386.6 465.85 326.85 174.25 71.05 301.8 433.75 420.8 992.8

DERIVED:

Adjusted Equity Shares in Cr	288.74	288.72	288.73	288.73	288.73	308.90	332.03	332.07	332.13	332.37
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