

# Financial Data Analysis in Python

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# Introduction

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- We have been given the data of 499 companies which include their Market Capitalization along with their Sales Qtr figures.
- We have been asked to analyze the data and come up with our own findings along with meaningful relationships



# Basic Figures

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- We can use the inbuilt methods of dataframes to get the basic figures regarding the data.
- This data includes figures like count, mean, Std deviation, quartiles and minimum & maximum.
- Useful for getting a rough idea of the data we're dealing with.

	Mar Cap - Crore	Sales Qtr - Crore
count	459.000000	459.000000
mean	28870.974139	3807.789412
std	60557.081792	9989.449987
min	3017.070000	0.000000
25%	4942.815000	534.910000
50%	10442.090000	1137.170000
75%	24707.320000	2730.195000
max	583436.720000	110666.930000

# Biggest Companies

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- Sorting the data by their Market Cap in descending manner will give us the biggest companies in the data.
- This will also give us the smallest companies in the data (bottom of the list after sorting).

	Name	Mar Cap - Crore	Sales Qtr - Crore
0	Reliance Inds.	583436.72	99810.00
1	TCS	563709.84	30904.00
2	HDFC Bank	482953.59	20581.27
3	ITC	320985.27	9772.02
4	H D F C	289497.37	16840.51
...	...	...	...
482	Prime Focus	3031.50	609.61
483	Lak. Vilas Bank	3029.57	790.17
484	NOCIL	3026.26	249.27
485	Orient Cement	3024.32	511.53
486	Natl.Fertilizer	3017.07	2840.75

# Companies with most sales

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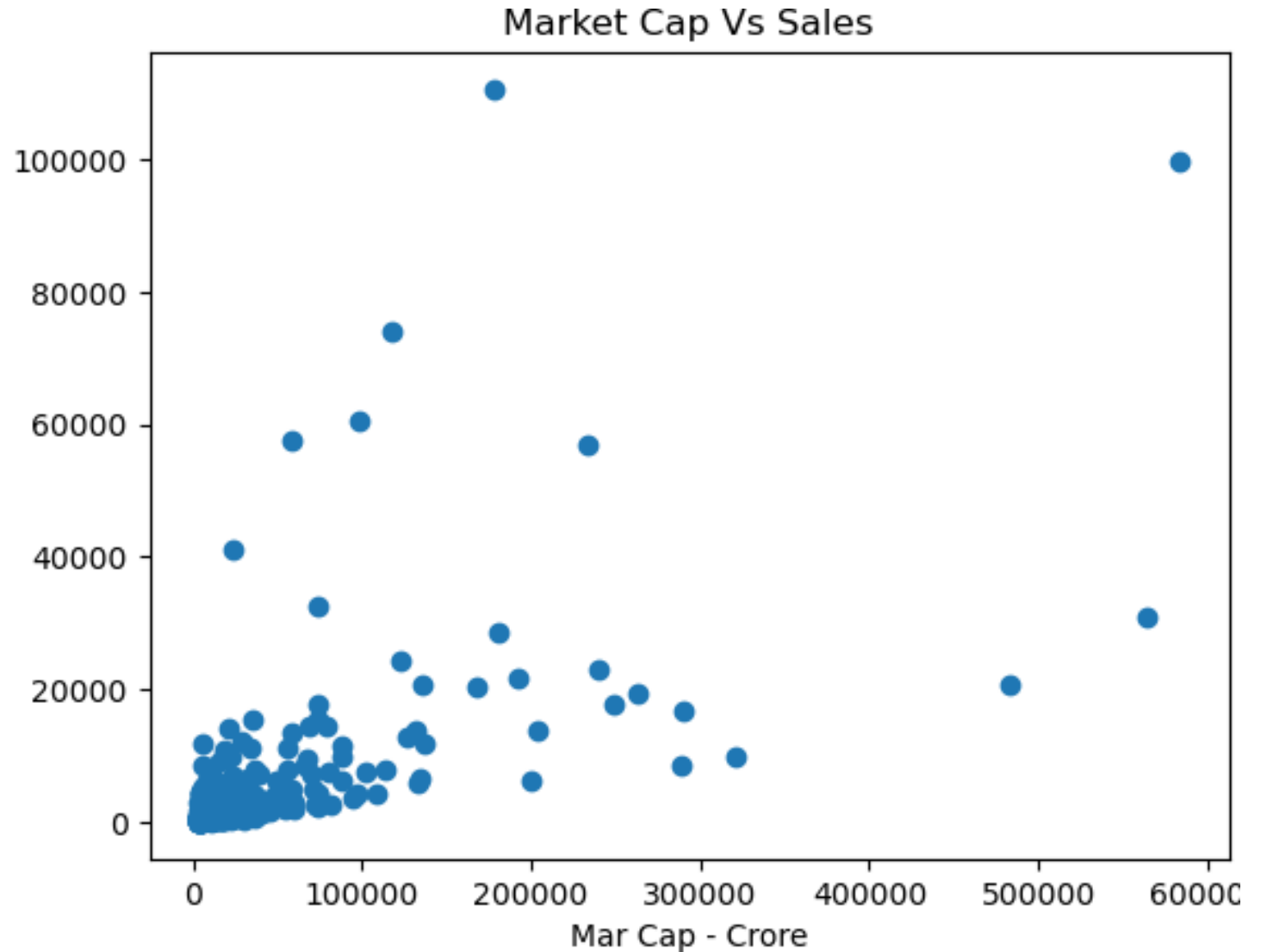
- Similar to market cap, Sorting the data by their Sales Qtr in descending manner will give us the companies with the most sales in the data.
- This will also give us the companies with the least sales in the data (bottom of the list after sorting).

	Name	Mar Cap - Crore	Sales Qtr - Crore
14	I O C L	178017.48	110666.93
0	Reliance Inds.	583436.72	99810.00
23	Tata Motors	117071.87	74156.07
27	B P C L	98278.00	60616.36
54	H P C L	58034.78	57474.25
...	...	...	...
422	Multi Comm. Exc.	3847.19	60.97
467	Central Dep. Ser	3316.31	47.24
382	Tata Inv.Corpn.	4401.66	47.02
228	SPARC	10755.13	19.42
393	Ujjivan Fin.Ser.	4293.42	0.00

# Market Cap vs Sales Qtr

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- We can plot a scatterplot between the Market Cap and the Sales Qtr of the companies to see the relation between the two.
- The Plot comes out to be as shown.
- We conclude that most companies come in the Low Market Cap low Sales Qtr Quadrant.



THANK  
YOU

A thick, hand-drawn style orange line that spans the width of the text "THANK YOU".