

GM100 Dashboard

Stock Market - IT Services and Consulting

by Pritam Laskar, PGCM - DA

Introduction

Small Cap

Mid Cap

Large Cap

Conclusion

About GM 100

Approach: This study showcases the fusion of SQL, Python, and Tableau for optimizing IT Services and Consulting stock selection from a dataset of 4500+ stocks. It exemplifies their synergy in efficient stock market data exploration, analysis, and presentation.

Step 1: SQL Data Refinement

- Import dataset into SQL database.
- Utilize SQL to clean data, remove duplicates, address missing values, and ensure coherence.
- Filter irrelevant data to maintain integrity.

Step 2: Python Insight Extraction

- Retrieve refined data from SQL as csv.
- Add the data into Python and use pandas, NumPy, and Matplotlib for further transformation and analysis.
- Calculate returns, identify trends, and extract insights.
- Ratios calculated on Python include the following:
 - (a) Earnings Per Share (EPS)
 - (b) Return on Equity (ROE)
 - (c) Profit Margin
 - (d) Profit After Tax
 - (e) Change in Retail Holdings
 - (f) Analyst Buy Ratio
 - (g) PS Ratio

Step 3: Data visualization on PowerBI

- Extract insights from Python as csv.
- Load into PowerBI, perform data manipulation using Power Query, and draw charts to visualize the insights.

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Datamatics Global Services Ltd

Highest EPS

0.09

Datamatics Global Services Ltd

Highest ROE

14.58



Fourth Dimension Solutions Ltd

Highest Profit Margin (in Cr)

2.21K

Zensar Technologies Ltd

Highest PAT (in Cr)

39.26

Datamatics Global Services Ltd

Highest Analyst Buy Ratio

0.00

Xelpmoc Design and Tech Ltd

Top 5 yr Change (%)

8.66

Datamatics Global Services Ltd

Highest Market Cap (in Cr)

1.83K

Name

All

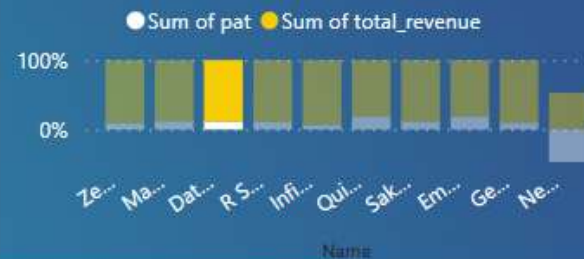
Earnings Per Share



Return on Equity



PAT & Total Revenue Change (in %)



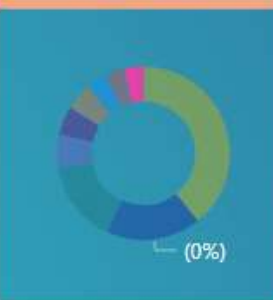
FII, DII, Retail Holding Change(in %)



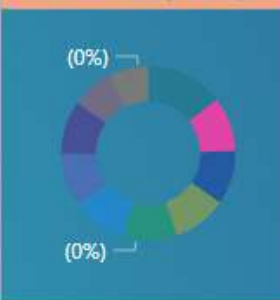
5 Yr Growth (in %)



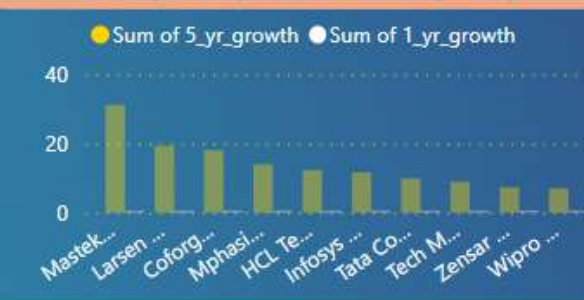
PE Ratio



Percentage Buy



Analyst Buy and Percentage Buy



PS Ratio

Aurum Propt...	Sylph Technol...	Acceder...	LCC Inf...
	33.73		
47.63	Jatalia Global ...	28.47	25.10
DU Digital Gl...	32.50	Aris Internat...	ACI...
	Senthil Infotek...	24.09	
42.69	30.43	Xelpmoc De...	20.13

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Sheshadri Industries Ltd
Highest EPS

0.06

Latent View Analytics Ltd
Highest ROE

40.23

Latent View Analytics Ltd
Highest Profit Margin (in Cr)

28.69

Birlasoft Ltd
Highest PAT (in Cr)

129.51

Birlasoft Ltd
Highest Analyst Buy Ratio

42.00

Route Mobile Ltd
Top 5 yr Change (%)

34.28

KPIT Technologies Ltd
Highest Market Cap (in Cr)

19.32K

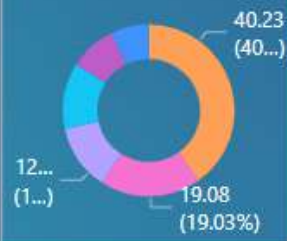
Name

All

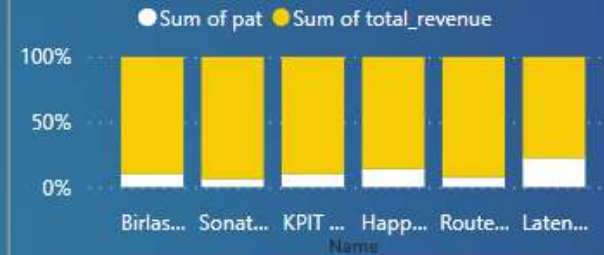
Earnings Per Share



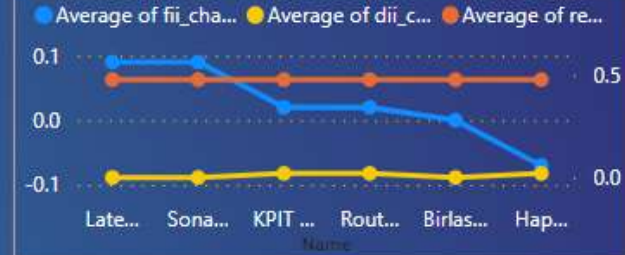
Return on Equity



PAT & Total Revenue Change (in %)



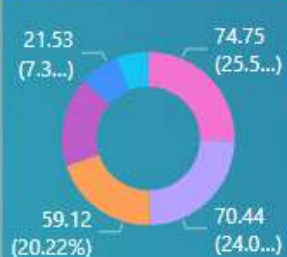
FII, DII, Retail Holding Change(in %)



5 Yr Growth (in %)



PE Ratio



Percentage Buy



Analyst Buy and Percentage Buy



PS Ratio



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Coforge Ltd
Highest EPS

0.12

Tata Consultancy Services Ltd
Highest ROE

24.34

Tata Consultancy Services Ltd
Highest Profit Margin (in Cr)

19.58

Tata Consultancy Services Ltd
Highest PAT (in Cr)

38.33K

Infosys Ltd
Highest Analyst Buy Ratio

42.00

Larsen & Toubro Infotech Ltd
Top 5 yr Change (%)

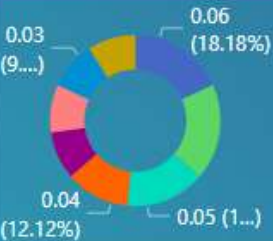
40.16

Tata Consultancy Services Ltd
Highest Market Cap (in Cr)

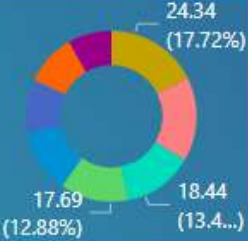
1.24M

Name
All

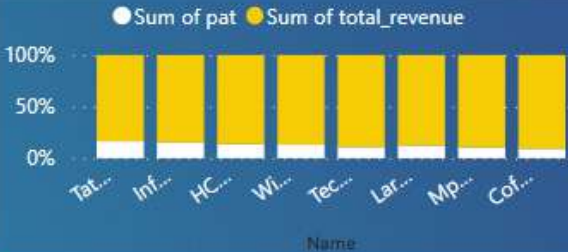
Earnings Per Share



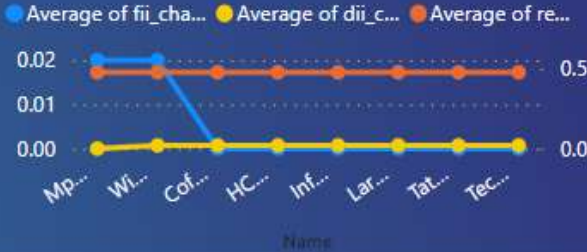
Return on Equity



PAT & Total Revenue Change (in %)



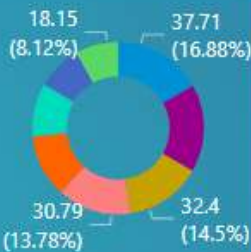
FII, DII, Retail Holding Change(in %)



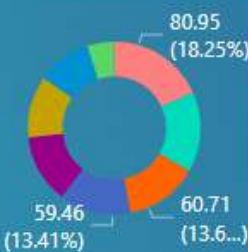
5 Yr Growth (in %)



PE Ratio



Percentage Buy



Analyst Buy and Percentage Buy



PS Ratio

Tata Consultancy ...	Larsen & To...	HCL Te...	Mpha...
6.34	5.37	3.49	3.12
Infosys Ltd	Coforge Ltd	Wipro ...	Tech ...
5.49	3.74	2.73	2.29

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Through this project, we understood the synergy of SQL, Python, and PowerBI in solving real-life challenges in the field of data analytics. Our journey initiated with SQL where we embarked on data purification. Addressing duplicates and mitigating null values, we employed mean imputation to fill the voids. Transitioning to Python, we used inter-quartile range to tackle outliers and computing pivotal metrics such as Profit Margin, Earnings Per Share (EPS), Return on Equity (ROE), Retail Holding Change, Analyst Buy Ratio, PS Ratio, and Profit After Tax (PAT).

The refined csv was imported into PowerBI for visual presentation and analysis. Our conclusions are directed towards identifying prime performers in the IT Services and Consulting sector of stock market.

We categorised stocks based on market capitalisation - small cap, mid cap, and large cap - employing PowerQuery : Small Cap (< 5000 cr market cap), Mid Cap (5000 cr to 20,000 cr market cap), and large cap (> 20,000 cr market cap).

Our dynamic dashboard is enriched with an array of interactive visualisations: Donut, line, column, and bar charts. Highlights of superior performing enterprises are encapsulated in text charts. Navigating through small cap, mid cap, and large cap stocks is seamlessly facilitated by pressing CTRL + the corresponding button.