

THETEAM



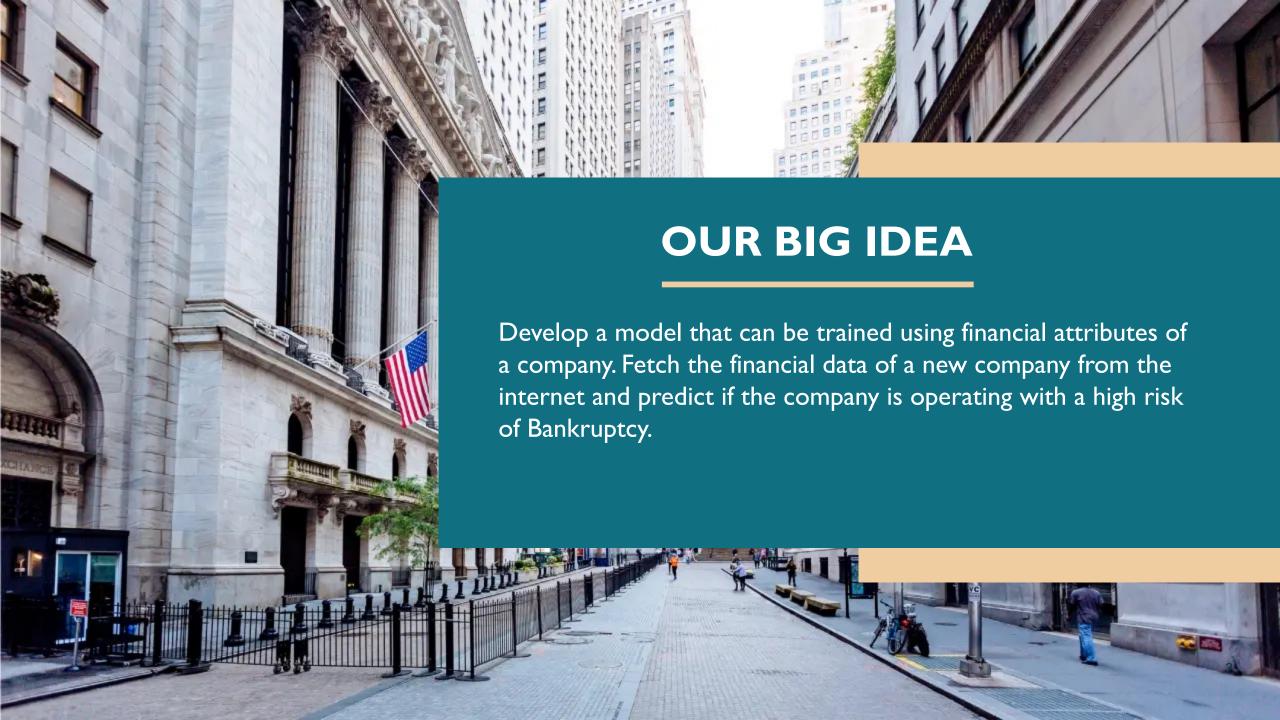
Tirth Shah Quant Researcher



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OUR DATASET

6819	96	Source			
Number of Instances	Variable Attributes	Kaggle Datasets Yahoo Finance			

Business Objectives

Questions:

- I. Identifying Early Warning Signs:
- 2. Assessing the Impact of Profitability:
- 3. Evaluating Industry-Specific Factors:
- 4. Determining the Significance of Leverage:
- 5. Temporal Analysis:
- 6. Risk Stratification:

Benefits and Use Cases:

- I. Risk Assessment:
- 2. Portfolio Management:
- 3. Early Warning System:
- 4. Regulatory Compliance
- 5. Industry Analysis:

Concepts and Definitions

- I. Current Ratio: A liquidity ratio that measures a company's ability to pay its short-term obligations.
- 2. Quick Ratio: A more conservative liquidity ratio that excludes inventories from current assets.
- **3. Gross Margins**: A profitability ratio that measures the percentage of revenue left after deducting the cost of goods sold.
- 4. Net Income: The bottom-line profitability metric that represents a company's total earnings or losses.
- **5.** Leverage Ratio: A solvency ratio that measures the extent to which a company relies on debt financing.

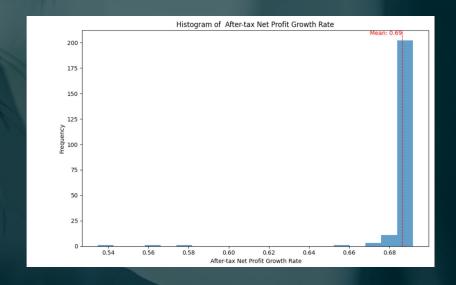
Data Insights

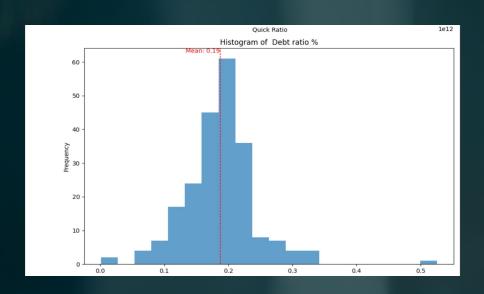
ROA(C) before interest and depreciation before interest	Operating Gross Margin	Current Ratio	Quick Ratio	Debt ratio %	After-tax Net Profit Growth Rate
-0.488658375900878	-0.18684647392861325	-0.20508218803858105	0.06091831975169926	0.48383528662533765	-0.09552805028990016

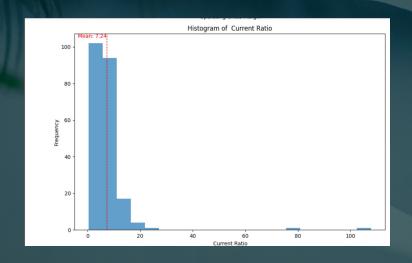
Correlation Matrix

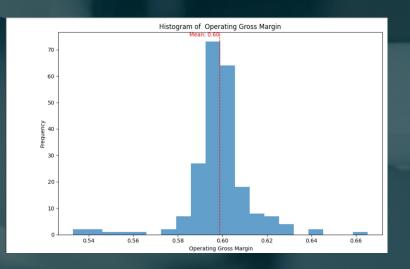
The correlation coefficient between "Bankrupt?" and "ROA(C) before interest and depreciation before interest" is approximately -0.4887. This suggests a moderate negative correlation, indicating that as "ROA(C) before interest and depreciation before interest" decreases, the likelihood of the company going bankrupt increases, and vice versa.

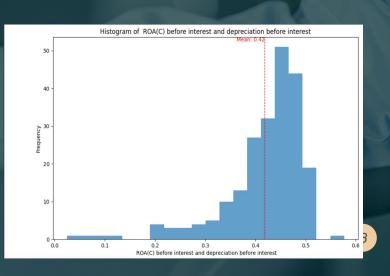
Data Insights











Use Case

1) Entering a Company Ticker Symbol

```
ticker = input ('Please enter your ticker name : ')

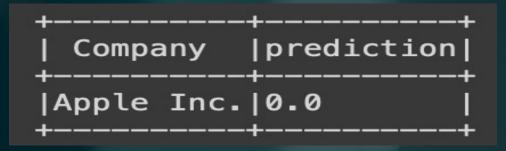
Please enter your ticker name : MSFT
```

2) Fetching the company data from Yahoo Finance

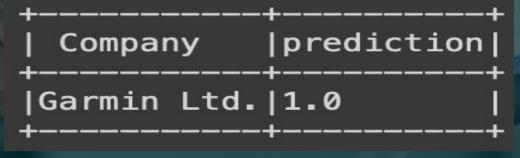
Company	ROA(C) before interest and depreciation be	efore interest	Operating Gross Mar	in Current	Ratio	Quick Ratio	After-tax Net Profit Growth	Rate	Debt ratio %
Microsoft Corpora		0.1519	0.69815	04	1.218	1.096	46	736	0.332

3) Passing the company data into the model and evaluating results for bankruptcy.

Results



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+-----+
| Company | prediction|
+-----+
|NVIDIA Corporation|0.0 |
```



Conclusion

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- 2. Assessing the Impact of Profitability:
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- 6. Risk Stratification:

