

Data Visualization and Analytics Lab

Internal Exam Project

Name of the Students and Roll No : -

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Problem Statement-: Creating a data visualization of a data set using Power BI or Tableau.

Topic : Stock Market Analysis with Dashboard (Power BI)

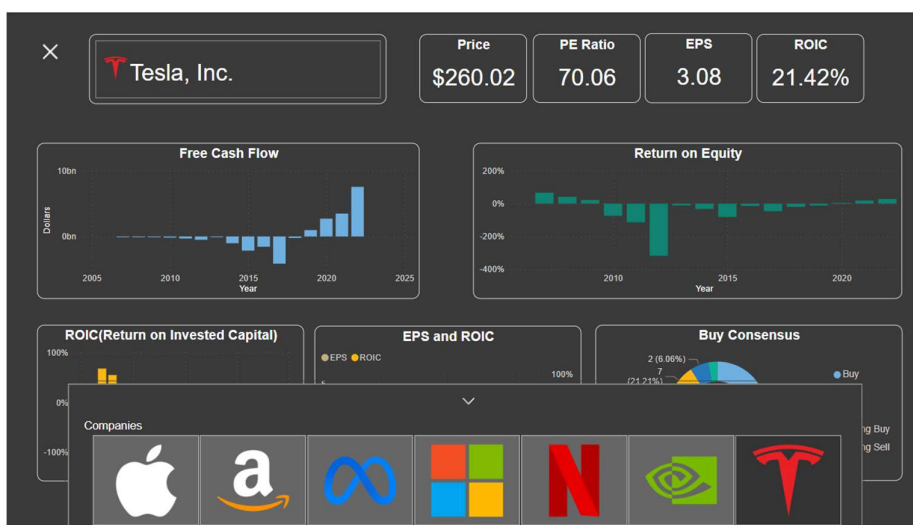
Overview -:

The stock market plays an important role in the relationship between companies and investors. It provides a way for companies to raise capital and for investors to own a piece of companies that they believe have the potential to grow and succeed.

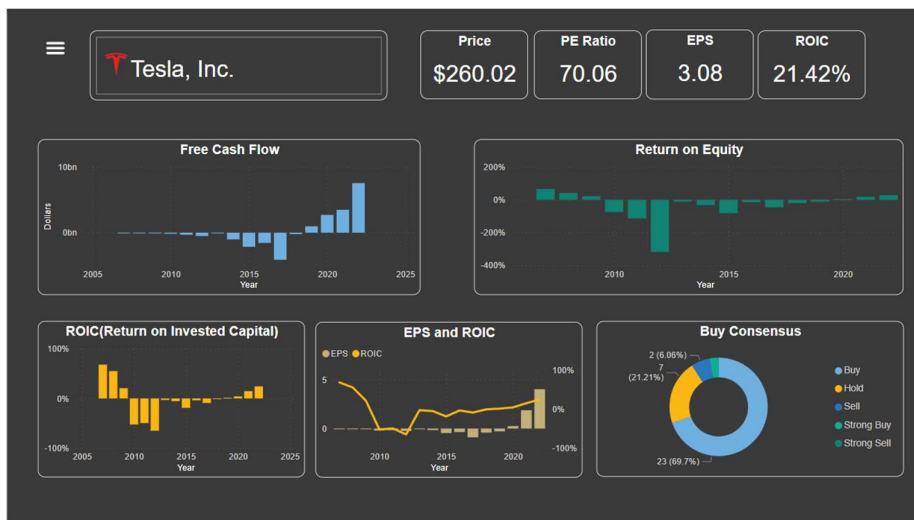
Thus, in this project we have presented the stock market analysis by analysing various attributes of companies, and NIFTY50 Index.

The project is divided into two parts. The first part deep and historical analysis of selected number of companies and the second part deals with a general Overview of an index and a group of companies with real time data.

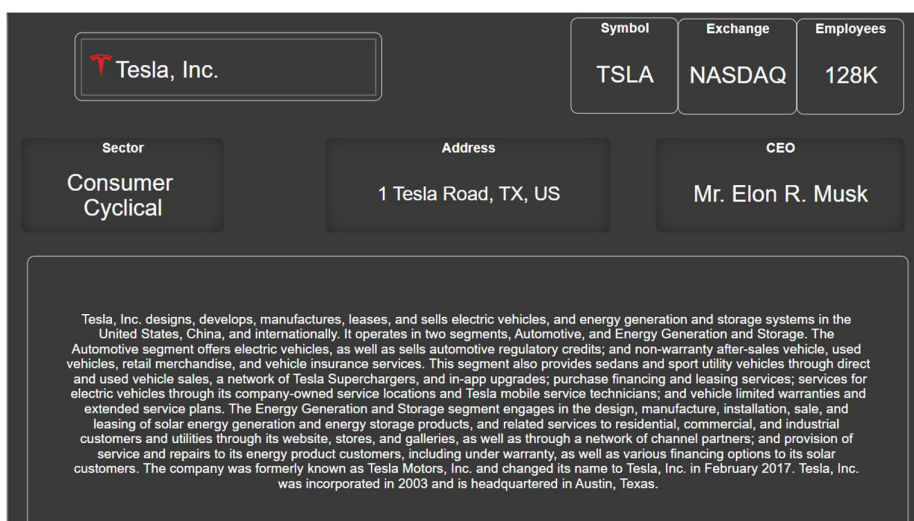
This part of the project enables an individual to conduct a deeper analysis of a company that they are looking forward to invest in, it provides a financial analysis and some general information (CEO, location, etc.) about the company



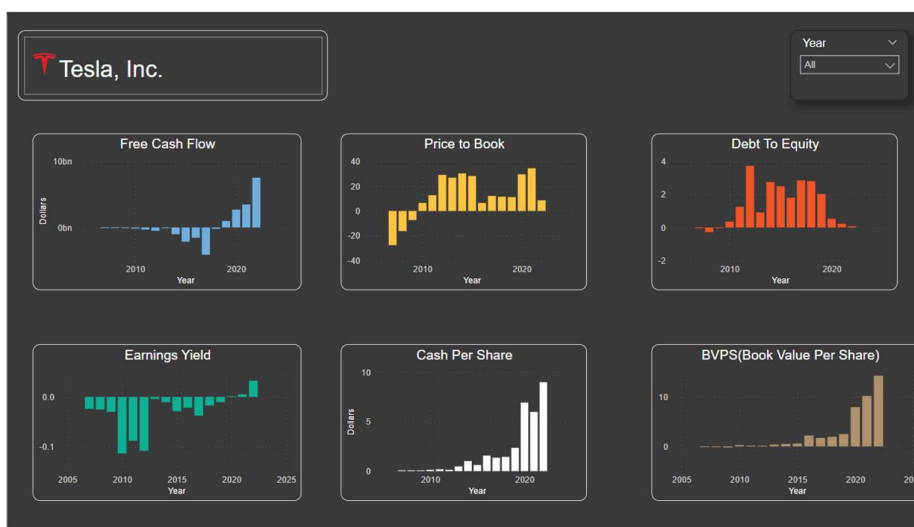
The first page of the dashboard enables one to choose a company that they want to analyse, it also gives an overview of a company's financial health.



This page showcases the current price of the stock, it's PE ratio, earnings per share. It also showcases year-wise breakdown of various financial metrics such as free cash flow, return on equity, return on invested capital, earnings per share and buy consensus



The second page of the dashboard gives us general information about the company selected on the first page, It has company's symbol, the exchange it's listed on, employee count, sector, address, it's CEO and general description of the company.

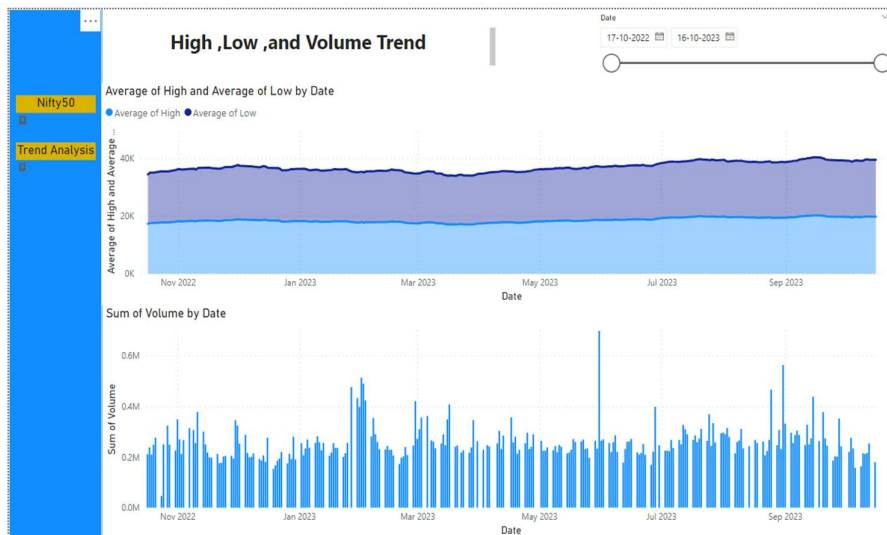


The third page of the dashboard gives us an in-depth analysis about the company selected on the first page, It provides us with various financial metrics like free cash flow, price to book, debt to equity, earnings yield, cash per share, book value per share. It also provides a year wise breakdown of these metrics, it has a slider which enables us to view performance in selected years.

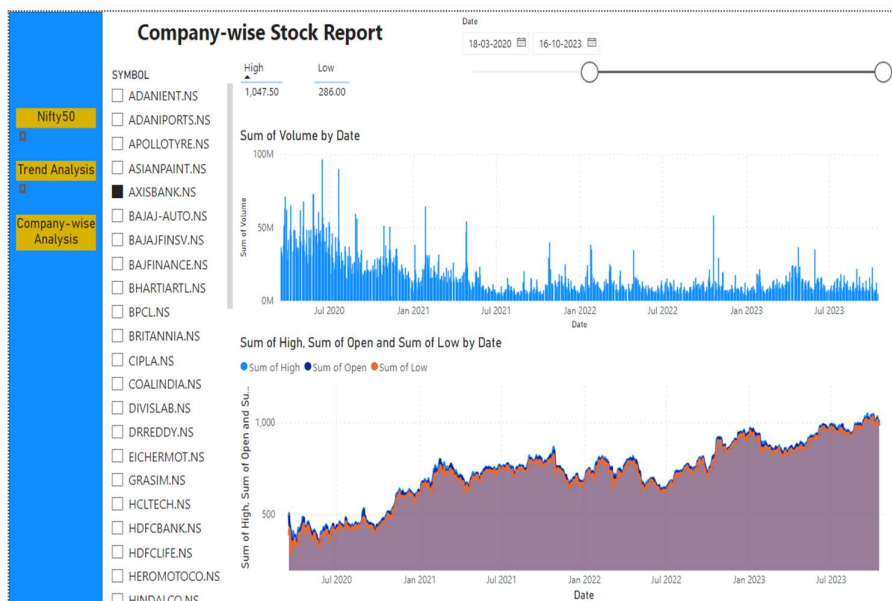
The below dashboard provides dynamic overview of Nifty50 companies with real-time data directly from web making it more usable.



Nifty50 Index plays a crucial role in Stock market analysis. And, the best representation for stock analysis is using **candle-stick chart** which represents low,high , open close values for a moment at a time.



Here the high ,low and volume data is analyzed which helps in finding the trends in the market which would act as a factor while trading shares.



This shows the companies wise analysis representing condition of each companies.