

Introduction

This project aims to analyze and identify stocks based on various financial metrics and indicators. By leveraging data extraction and analysis techniques, we can provide insights into stocks' trading volumes, volatility, dividends, P/E ratios, market capitalization, and buy/sell signals.

Data Operations

Data Source

Utilize a .csv file containing past years' stock market data for comprehensive analysis.

Data Cleaning with Power Query

- •Import Data: Seamlessly import the .csv file into Power Query for efficient data processing.
- •Remove Duplicates: Ensure data integrity by identifying and removing duplicate values.
- •Handle Missing Values: Replace null or missing values to maintain data consistency.
- •Format Data Types: Standardize and format data types for accurate analysis and processing.
- •Create New Columns: Derive necessary columns from existing data to facilitate targeted analysis and insights





Excel Dashboard

Average Trading Volume 5.51M

Average P/E Ratio 62.91



Stock Market Analysis 👫



Avg High Value 825.08

Avg Low Price 775.01



Year

2010

2011

2012

2013

2014

2015

2016

2017

2018

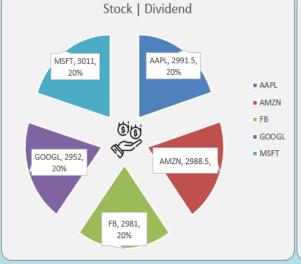
2019



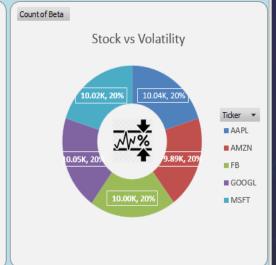


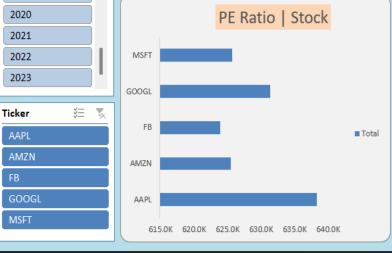














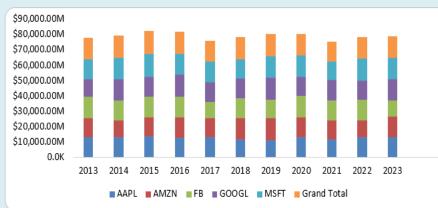




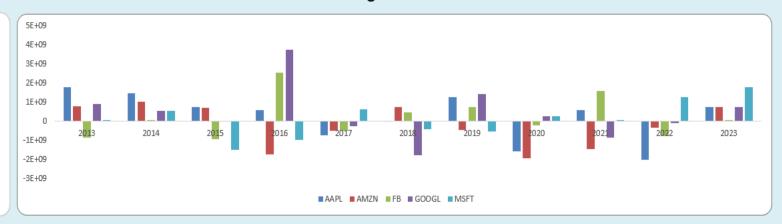


Last 10 Year Statistics

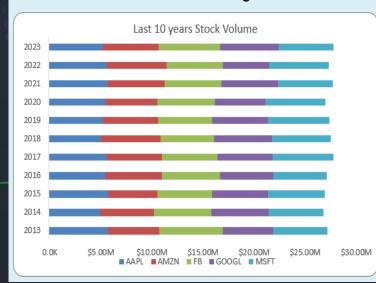




Trading Profit and Loss



10 Years Trading volume



10 Years Market Split



Insights

- FB is having the maximum number of stocks traded daily with the trading volume 5.53M stocks per day. All stocks are having good liquidity which allows them to traded without significant price change
- Beta values for the stocks indicates their volatility, here Googl is most volatile stock indicating higher price sensitivity to market movements. Amzn is least volatile stock.
- MSFT is providing the maximum dividend whereas GOOGL providing minimum dividends.
- P/E ratio indicates the investors future interests in the stock, Here APPL is having the highest P/E ratio while FB is having the Lowest
- GOOGL dominates in stock market price with max: 1549 & min: 53.58 whereas AMZN have the lowest 55 which is maximum of low as compared to others.
- MACD & RSI helps to indicate the selling and buying signals, stocks MSFT, AMZN, AAPL are having the bullish trend which indicates the buying signal and FB, GOOGL shows the bearish trend which indicates the selling signal.

10 Year analysis

- The market capital of FB has significantly decreased in last 10 years , MSFT , GOOGL , AMZN market capital increased .
- APPL & GOOGL provided attractive returns to traders in past 10 years where FB has overall loss.

Conclusion

Extracted and analyzed critical financial metrics to highlight stocks with notable performance in terms of liquidity, volatility, dividends, P/E ratios, and market capitalization.

Through meticulous data processing and analysis, we were able to identify significant patterns and trends that can inform better investment decisions.