STOCK MARKET ANALYSIS

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Introduction

The global stock market is an intricate ecosystem where investors seek opportunities to maximize their returns. In this dynamic landscape, technology giants like Microsoft, Amazon, Apple, Netflix, and Google have emerged as titans, revolutionizing industries and transforming the way we live, work, and entertain ourselves. Their stocks have become focal points for investors, commanding immense attention and scrutiny.

Motivation

The motivation behind this project is to address the growing interest and need for comprehensive information about the prospects of technology giants. Companies have a significant impact on the global economy, and their stocks have become sought-after investment opportunities for both individual and institutional investors.
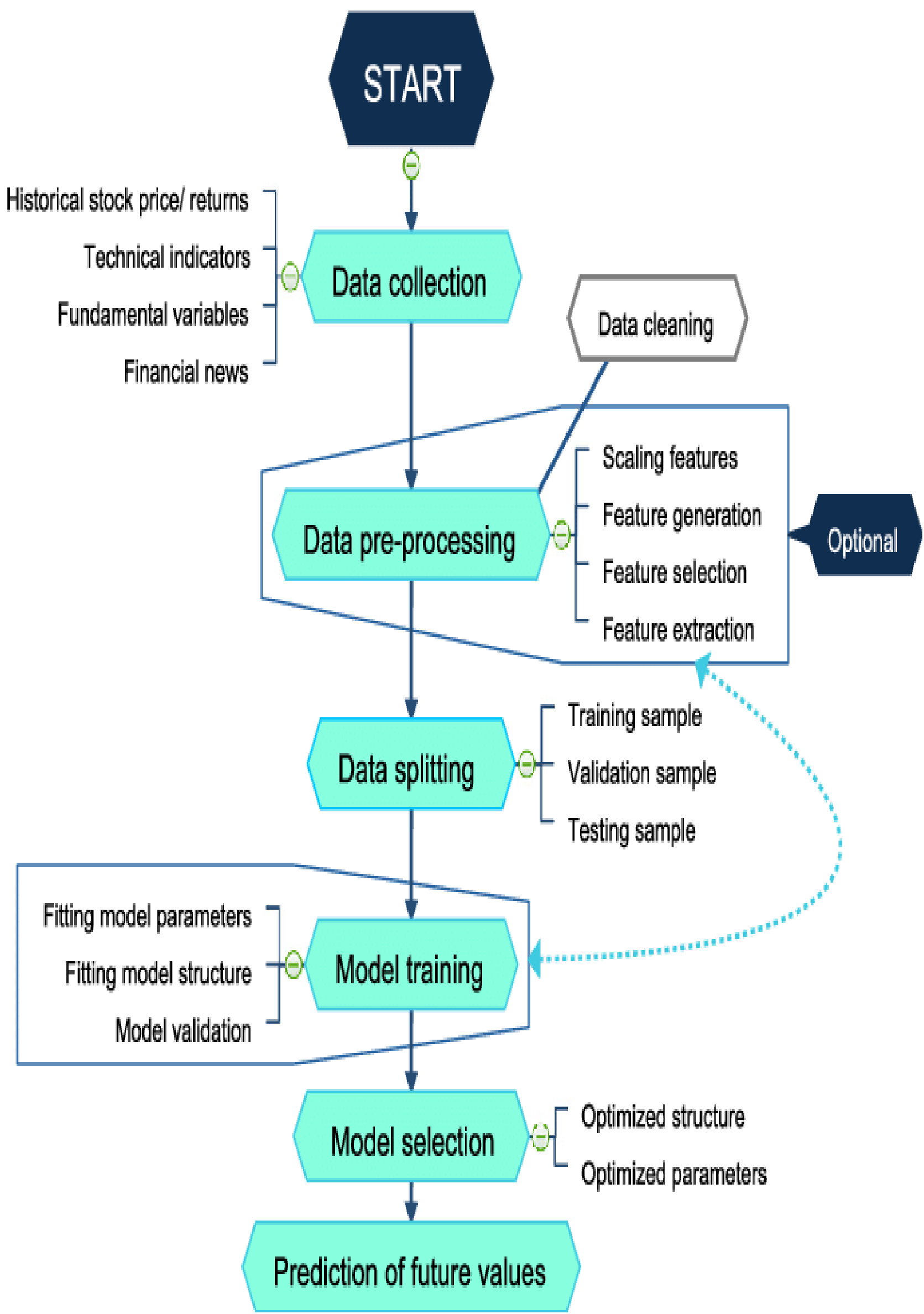
SCOPE of the Project

The scope of this stock market analysis will cover various aspects, including:

• Historical Stock Performance

• Financial Indicators

• Market Capitalization and Valuation

Methodology

To conduct the stock market analysis of Microsoft, Amazon, Apple, Netflix, and Google, the following methodology will be employed:

• Data Collection

• Financial Analysis

• Comparative Analysis

• Historical Performance Evaluation

• Industry and Market Analysis

• Risk Assessment

SYSTEM ARCHITECTURE

Results

Potential results of this project could include:

1.Historical Performance Analysis: A detailed examination of the historical stock performance of Microsoft, Amazon, Apple, Netflix, and Google, including trends, patterns, and major events that have influenced their stock prices.

2.Financial Insights: Analysis of key financial indicators, such as revenue growth, profitability ratios, valuation metrics, and liquidity measures, providing insights into the financial health and stability of each company.
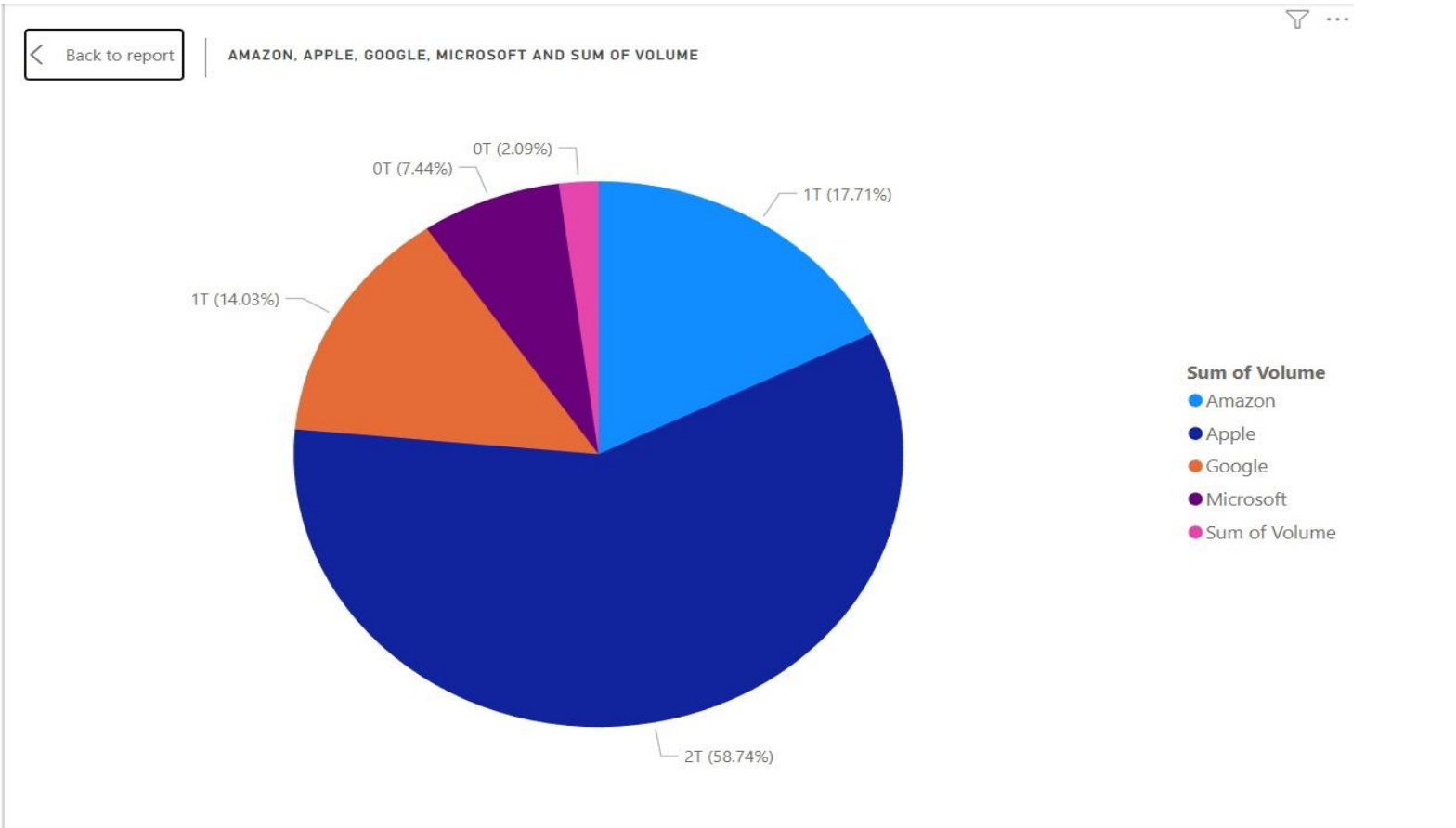

Fig. Visualization of Labels

visualization of labels
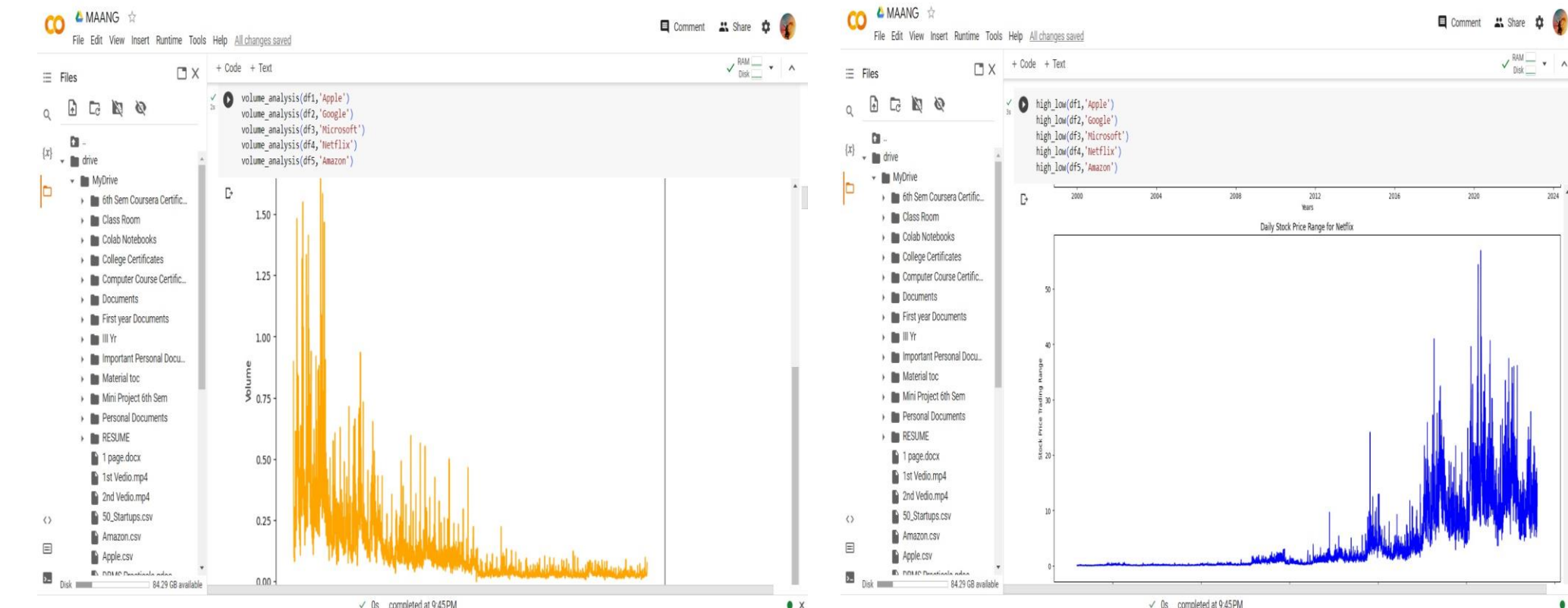

Fig. correlation Treemap of the data

Fig . Accuracy Vs Epochs

Fig. Model Loss vs Epochs

Conclusion

Throughout the project, it is important to emphasize that the analysis is based on publicly available data and does not include personalized investment advice. Investors are encouraged to conduct their own research, consult with financial professionals, and consider their risk tolerance before making investment decisions. Overall, this stock market analysis project aimed to empower investors by providing comprehensive insights into Microsoft, Amazon, Apple, Netflix, and Google.

Reference

[1] Shubham Ekapure, Nuruddin Jiruwala, Sohan Patnaik, Indranil SenGupta S 2021, "A data-science-driven short-term analysis of Amazon, Apple, Google, and Microsoft Stocks".