



# BIG DATA ANALYSIS PROJECT PROPOSAL

Title: Analyzing Stock Market for  
Investment Opportunities

Beginners' Team

Team members-

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## Introduction

The stock market is a dynamic and complicated system that is influenced by a wide range of variables, such as investor sentiment, geopolitical events, and economic data. In this project, historical stock market data will be analyzed to find trends and patterns that help guide investment choices.



## Problem Statement

Making wise investment selections in a risky and turbulent market is a challenge for investors. We can spot patterns and trends in historical stock market data that can be used to spot prospective investment opportunities and predict market movements.



## Data Sources

We will use historical stock market data for the study from readily accessible resources like Yahoo Finance, Alpha Vantage, or Quandl. The information will contain daily or weekly stock price data as well as economic metrics like GDP, inflation, and interest rates.



## Analysis Methodology

To examine the data, we will employ a range of statistical and machine learning methods. Time-series analysis, regression analysis, and clustering are a few examples of this. It is intended to find connections and trends between different economic data and stock prices in order to spot prospective investing opportunities.



## Expected Outcomes

In order to help investors make better investment decisions, the project tries to find patterns and trends in historical stock market data. Depending on economic indications, this can include selecting sectors or companies that are projected to perform well or equities that have historically outperformed the market during particular economic situations.



## Resources

We will use Python for data analysis and visualization, as well as packages such as pandas, NumPy, and scikit-learn. We may also use Excel or other tools for data analysis and visualization.



## Conclusion

We can find patterns and trends in past stock market data that can help us make financial decisions. Using historical stock market data and economic factors, this initiative seeks to shed light on potential investment possibilities and forecast market trends. For individual investors or financial organizations wanting to make wise investment decisions, the project's findings may be helpful.