**ABSTRACT:**

**TOPIC:** **Stock Market Analysis**

This research project involves the in-depth analysis of historical stock price data by leveraging Pandas' data reader to retrieve information from prominent sources like Yahoo Finance or Alpha Vantage. The primary objectives include downloading historical stock price data, calculating essential statistical metrics such as the mean, median, and standard deviation of stock prices, analyzing trends and correlations among different stocks, and visualizing stock price movements using Matplotlib. The study aims to provide a comprehensive understanding of historical stock behaviors to assist in making informed investment decisions. By exploring trends and correlations across various stocks and creating visual representations of stock price movements, this analysis seeks to offer valuable insights for investors and financial analysts navigating the dynamic landscape of the stock market. This project emphasizes the significance of data-driven analysis in optimizing investment strategies and risk management practices.