Stock Price Web Scraping & Historical Data Report

1. Introduction

This report provides an overview of the automated web scraping of stock prices from Yahoo Finance. The script fetches real-time stock prices, records them with timestamps, and stores them in a historical dataset. The automation ensures daily stock price tracking for further analysis and forecasting.

2. Data Overview

- **Data Source:** Yahoo Finance
- **Method:** Web scraping using **requests** and **BeautifulSoup**
- **Storage Format:** CSV file (**historical_stock_prices.csv**)
- **Automation:**
  - **Windows:** Task Scheduler
  - **Mac/Linux:** Cron Jobs

3. Automation & Future Improvements

- ❖ Daily stock price scraping ensures real-time tracking.
- ❖ Historical data can be used for price prediction models.
- ❖ Future improvements: Store data in a database for better scalability.

4. Conclusion

This project successfully automates daily stock price scraping using Yahoo Finance. The collected data provides insights into price trends, volatility, and investment opportunities. Future improvements include advanced machine learning predictions and API-based data fetching for higher accuracy.