**Tesla Data: Stock Price Trends**

**Skill Used: Tableau**

**Introduction:**

This document presents an analytics project focused on analysing stock price trend of Tesla company. The project aims to identify trend of average monthly stock price, daily closing figures and volume of stock traded.

**Objective:**

1. Provide trends of the stock price specifically for the last 3 months to a stakeholder.
2. The data should be updated daily.
3. Stakeholder wants to know the average monthly stock price, daily closing figures and volume of stock traded.

**Data Description:**

We created our own dataset using Google spreadsheet till date 1/1/2024. Data was loaded in Google spreadsheet by using following function:

GOOGLEFINANCE("TSLA", "all",”1/1/2020,”1/1/2024”, "DAILY")

**Data Preparation:**

1. Data was checked if the data types are correct in Tableau.
2. Data was checked if there is any inconsistencies.

**Charts and Dashboard Preparation in Tableau:**

Four charts are created with last 3 months data as required by stakeholder:

1. Daily Close Price
2. Volume Traded
3. Daily High and Low
4. Percentage change between open and close.

**Visualization in Tableau:**

Link to view Tableau Dashboard:

https://public.tableau.com/app/profile/prachi.tyagi2466/viz/TeslaStockTrendDashboard/Dashboard1

The google sheet data is loaded in tableau public desktop to create visualization and get a visual answer to our queries raised by stakeholder.

1. Date filter is provided to user to know trends and metrics for last three months.
2. Last three months average of closing price is provided on dashboard.
3. Key data charts like average monthly stock price, daily closing figures and volume of stock traded is shown.

**Analysis Results:**

Duration taken for analysis: 1/10/2023-31/12/2023

Highest Price for last three months :268.9

Lowest Price for last three months :194.1

Last three months average closing price:

October 2023:236.91

November 2023:229.41

December 2023: 247.14

1. November saw the lowest average closing price.
2. Daily Close Price was lowest on 30th October 2023.
3. Volume traded was highest on 19th October 2023 at around 170 M.
4. Percentage change between open and close was lowest at -5.70% on 30th October 2023 when open price was 209.28 and closing price was 197.