2. Detailed description of the data.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Variable** | **Variable name** | **Measurement Unit** | **Allowed Values** | **Description** |
| Date (monthly) | Date | mm-dd-yyyy | 1-12/1-31/2010-2023 | It is the 'date' column, which provides the date on which the stock price was recorded. |
| Stock price | Price | numeric | 0-100,000,000 | It is the 'price' column, which displays the opening price of the stock on the given date. |
| Max Stock price at the start of the month | High | numeric | 0-100,000,000 | It is the 'high' column, which represents the highest price at which the stock was traded during the day. |
| Min Stock price at the start of the month | Low | numeric | 0-100,000,000 | It is the 'low' column, which displays the lowest price at which the stock was traded during the day. |
| Closing price at the start of the month | Close | numeric | 0-100,000,000 | It is the 'close' column, which represents the closing price of the stock on the given date. |
| Quantity of shares traded at the start of the month | Volume | numeric | 0-100,000,000 | It is the 'volume' column, which displays the total number of shares traded on the given date. |
| Adj. closing | Adj Close | numeric | 0-100,000,000 | It is the 'adj close' column, which displays the adjusted closing price of the stock on the given date. |

3. Data Collection Methodology (2 points). State how the data is collected, by whom, how often, etc.

* Data is collected by Yahoo Finance API, a programmatic interface that allows developers to access financial data from the Yahoo Finance platform.
* The data was collected by sending requests to the Yahoo Finance API using a programming language such as Python, and then parsing the returned data into a format such as CSV or Excel using libraries such as Pandas and NumPy.
* The data is collected at the start of every month.

4. Why does this data set intrigue you?

I have been very interested in stock market from a long time and forecasting the stock market prices with this model would help me in my personal investments as well