### **3. Data Collection**

**Updated Data Sources**

**Historical Stock Prices:**

* **Dataset Name:** AMZN Historical Stock Prices
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** Contains daily historical stock data for Amazon Inc. (AMZN) from 2010 onwards, including open, high, low, close, and volume. Additionally, it includes various technical indicators such as moving averages and Bollinger Bands, and market indices data such as S&P 500 and DJIA closing prices.
* **Dataset Name:** FB Historical Stock Prices
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** Contains daily historical stock data for Facebook Inc. (FB) from 2015 onwards, including open, high, low, close, and volume. Additionally, it includes various technical indicators such as moving averages and Bollinger Bands, and market indices data such as S&P 500 and DJIA closing prices.
* **Dataset Name**: AAPL Historical Stock Prices
* **Source**: Internal Dataset (Uploaded CSV)
* **Description**: Contains daily historical stock data for Apple Inc. (AAPL) from 2005 onwards, including open, high, low, close, and volume. Additionally, it includes various technical indicators such as moving averages and Bollinger Bands, and market indices data such as S&P 500 and DJIA closing prices.
* **Dataset Name:** GE Historical Stock Prices
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** Contains daily historical stock data for General Electric Co. (GE) from 2000 onwards, including open, high, low, close, and volume. Additionally, it includes various technical indicators such as moving averages and Bollinger Bands, and market indices data such as S&P 500 and DJIA closing prices.
* **Dataset Name:** GOOGL Historical Stock Prices
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** Contains daily historical stock data for Alphabet Inc. (GOOGL) from 2007 onwards, including open, high, low, close, and volume. Additionally, it includes various technical indicators such as moving averages and Bollinger Bands, and market indices data such as S&P 500 and DJIA closing prices.
* **Dataset Name:** GS Historical Stock Prices
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** Contains daily historical stock data for Goldman Sachs Group Inc. (GS) from 2005 onwards, including open, high, low, close, and volume. Additionally, it includes various technical indicators such as moving averages and Bollinger Bands, and market indices data such as S&P 500 and DJIA closing prices.
* **Dataset Name:** IBM Historical Stock Prices
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** Contains daily historical stock data for IBM from 2000 onwards, including open, high, low, close, and volume. Additionally, it includes various technical indicators and market indices data such as S&P 500 and DJIA closing prices.
* **Dataset Name:** JPM Historical Stock Prices
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** Contains daily historical stock data for JPMorgan Chase & Co. (JPM) from 2000 onwards, including open, high, low, close, and volume. Additionally, it includes various technical indicators and market indices data such as S&P 500 and DJIA closing prices.
* **Dataset Name:** MSFT Historical Stock Prices
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** Contains daily historical stock data for Microsoft Corporation (MSFT) from 2000 onwards, including open, high, low, close, and volume. Additionally, it includes various technical indicators and market indices data such as S&P 500 and DJIA closing prices.

**Technical Indicators:**

* **Dataset Name:** AMZN Technical Indicators
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** This dataset provides calculated technical indicators like standard deviation (SD20), upper and lower Bollinger Bands, and moving averages (QQQ\_MA10, QQQ\_MA20, QQQ\_MA50) for Amazon Inc. (AMZN). These indicators are essential for feature engineering and enhancing the prediction model's input.
* **Dataset Name:** FB Technical Indicators
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** This dataset provides calculated technical indicators like standard deviation (SD20), upper and lower Bollinger Bands, and moving averages (QQQ\_MA10, QQQ\_MA20, QQQ\_MA50) for Facebook Inc. (FB). These indicators are essential for feature engineering and enhancing the prediction model's input.
* **Dataset Name**: AAPL Technical Indicators
* **Source**: Internal Dataset (Uploaded CSV)
* **Description**: This dataset provides calculated technical indicators like standard deviation (SD20), upper and lower Bollinger Bands, and moving averages (QQQ\_MA10, QQQ\_MA20, QQQ\_MA50) for Apple Inc. (AAPL). These indicators are essential for feature engineering and enhancing the prediction model's input.
* **Dataset Name:** GE Technical Indicators
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* **Dataset Name:** JPM Technical Indicators
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** This dataset provides calculated technical indicators like standard deviation (SD20), upper and lower Bollinger Bands, and moving averages (QQQ\_MA10, QQQ\_MA20, QQQ\_MA50) for JPMorgan Chase & Co. (JPM). These indicators are essential for feature engineering and enhancing the prediction model's input.
* **Dataset Name:** MSFT Technical Indicators
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** This dataset provides calculated technical indicators like standard deviation (SD20), upper and lower Bollinger Bands, and moving averages (QQQ\_MA10, QQQ\_MA20, QQQ\_MA50) for Microsoft Corporation (MSFT). These indicators are essential for feature engineering and enhancing the prediction model's input.

**Market Indices and Other Financial Data:**

* **Dataset Name:** AMZN Market Indices Data
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** Includes closing prices for major market indices such as S&P 500 (SnP\_Close) and DJIA (DJIA\_Close). This additional data helps in understanding the broader market trends and their impact on AMZN's stock price.
* **Dataset Name:** FB Market Indices Data
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** Includes closing prices for major market indices such as S&P 500 (SnP\_Close) and DJIA (DJIA\_Close). This additional data helps in understanding the broader market trends and their impact on FB's stock price.
* **Dataset Name**: AAPL Market Indices Data
* **Source**: Internal Dataset (Uploaded CSV)
* **Description**: Includes closing prices for major market indices such as S&P 500 (SnP\_Close) and DJIA (DJIA\_Close). This additional data helps in understanding the broader market trends and their impact on AAPL's stock price.
* **Dataset Name:** GE Market Indices Data
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** Includes closing prices for major market indices such as S&P 500 (SnP\_Close) and DJIA (DJIA\_Close). This additional data helps in understanding the broader market trends and their impact on GE's stock price.
* **Dataset Name:** GOOGL Market Indices Data
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** Includes closing prices for major market indices such as S&P 500 (SnP\_Close) and DJIA (DJIA\_Close). This additional data helps in understanding the broader market trends and their impact on GOOGL's stock price.
* **Dataset Name:** GS Market Indices Data
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** Includes closing prices for major market indices such as S&P 500 (SnP\_Close) and DJIA (DJIA\_Close). This additional data helps in understanding the broader market trends and their impact on GS's stock price.
* **Dataset Name:** IBM Market Indices Data
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** Includes closing prices for major market indices such as S&P 500 (SnP\_Close) and DJIA (DJIA\_Close). This additional data helps in understanding the broader market trends and their impact on IBM's stock price.
* **Dataset Name:** JPM Market Indices Data
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** Includes closing prices for major market indices such as S&P 500 (SnP\_Close) and DJIA (DJIA\_Close). This additional data helps in understanding the broader market trends and their impact on JPM's stock price.
* **Dataset Name:** MSFT Market Indices Data
* **Source:** Internal Dataset (Uploaded CSV)
* **Description:** Includes closing prices for major market indices such as S&P 500 (SnP\_Close) and DJIA (DJIA\_Close). This additional data helps in understanding the broader market trends and their impact on MSFT's stock price.