**BLUEPRINT**

**-Team 17**

**Stock Market Prediction**

**The Blueprint file structure follows the following pattern:**

Dashboard

Creation

Model

Creation

Feature

Engineering

EDA

Data

Preparation

Data

**Data Set Link:**

<https://github.com/HemaMounikaNeduri/Stock_Price_Prediction_Using_LSTM/tree/main/Datasets>

Collection of Data Sets :

* DataFrame.csv
* MSFT.csv

**Data Preparation:**

* Data Cleaning: Identifying and correcting mistakes or errors in the data.In data sets, Neither Missing nor duplicate rows present.
* Identifying input variables that are more relevant to the task.
* Adding new features and attributes to the data sets(DataFrame.csv, MSFT.csv)

**EDA:**

* Importing the Data Sets.
* See the view and shape of the data set.
* Descriptive statistics of the data set.
* Checking about the correlation between features In a data set.
* Checking about data types and missing values in the data.

**Feature Engineering:**

* Imputation:if missing values are present ,impute them.
* Using Logistic Regression and SVM algorithm we try to analyze the daily stocks and predict for the next day.
* Encoding categorical features and Standardization of data.

**Model Creation:**

* SVM model can be applied to stock price data through the Great Recession and subsequent recovery period.
* Data Collection and Timeframe.
* SVM Model : The specific kernel function we use in this study is the radial kernel.
* Feature Selection(we use four features to predict stock price direction – price volatility, price momentum, sector volatility, and sector momentum)
* Method.

**Dashboard Creation:**

* Identify key Finance formulas and its parameters.
* Create a data source of information .Importing the Data Sets.
* Analyze the data set and create charts of the analyzed data.
* Create a summarized dashboard of charts and info graphics.