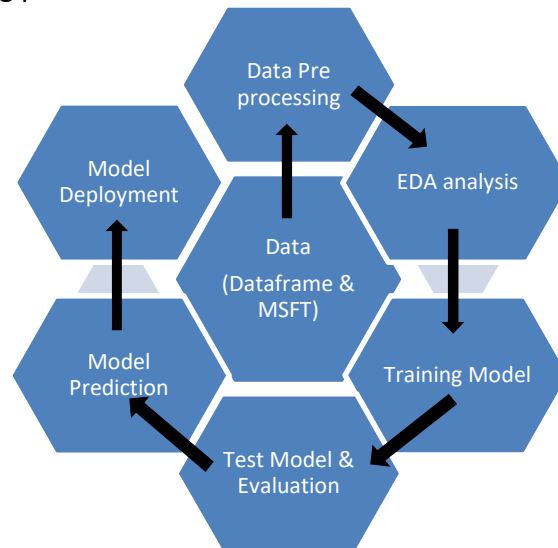


Prediction of Stock Price movement based on Trading using Supervised Learning Model

The blueprint follows the following pattern:



Data	Data Sets -> DataFrame.csv (22805, 7) & MSFT.csv (8857, 7) Collect the RAW data from GitHub. File Format -> .CSV
Data Processing	Data Cleaning -> remove blanks , null value and duplicates if any , handling outliers Parse the date into datetime data type , identified general statistics Standardizing the data
EDA	Visualizing various plots --> to analyze the distribution pattern of various attributes Understand the data pattern with respect to target variable (Close) Feature Selection --> remove unnecessary columns , Identifying Correlation -> Using Heat Map/Matrix
Training Model	Segregating Dependent (close variable) and Independent Variables , Splitting data set -> 80:20 (ratio), SVM Linear & SVM Polynomial -> For Model Training , Transforming Data -> Feature Scaling Hyper parameter Tuning -> Apply various ML/DL Techniques to select for best suitable model
Test Model & Evaluation	Test Data -> 20% of data set in both cases Data -> 4561 rows of dataframe.csv and 1771 rows of msft.csv Evaluation Parameters -> Accuracy , Mean Absolute Error and other parameters if any.
Model Prediction	Predict the Stock Price using Trading -> After applying SVM (linear & polynomial) Rectify the model performance techniques -> like Cross validating the model etc.
Model Deployment	Deploy model -> using flask, Microsoft Azure Check functionality