Multivariate linear Regression -Stock prediction

# Multiple Linear Regression

# Importing the libraries

import numpy as np

import matplotlib.pyplot as plt

import pandas as pd

# Importing the dataset

dataset = pd.read\_csv('Stocks\_data.csv')

X = dataset.iloc[:, :-1]

y = dataset.iloc[:, 4]

#Convert the column into categorical columns

states=pd.get\_dummies(X['State'],drop\_first=True)

# Drop the state coulmn

X=X.drop('State',axis=1)

# concat the dummy variables

X=pd.concat([X,states],axis=1)

# Splitting the dataset into the Training set and Test set

from sklearn.model\_selection import train\_test\_split

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, y, test\_size = 0.2, random\_state = 0)

# Fitting Multiple Linear Regression to the Training set

from sklearn.linear\_model import LinearRegression

regressor = LinearRegression()

regressor.fit(X\_train, y\_train)

# Predicting the Test set results

y\_pred = regressor.predict(X\_test)

from sklearn.metrics import r2\_score

Accuracy=r2\_score(y\_test,y\_pred)

print(Accuracy\*100)