**Analysis of Machine Learning Models for Predicting Stock Prices**

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**Introduction**

For this project, we implemented two models for predicting future stock price values for a certain company. Our research is based on stock prices of different companies. We obtained stock prices from CAC40 Stocks Dataset[https://www.kaggle.com/datasets/bryanb/cac40-stocks-dataset to give data for each model.

**Dependencies:**

1. Edit the PATH variable in Stock\_Prediciton.py to where the dataset is stored

2. Python 3, Tensorflow, Keras, Numpy, datetime

Install the required packages, run pip install streamlit==1.9.0; pip install statsmodels; pip install plotly==5.7.0

Issues for MAC:

The TensorFlow support is not there for M1 and M1 pro yet and that’s why we noticed we were not able to run the code in Mac .



**Instructions to Run:**

1. Once you have all the required modules, then run the below command

*Streamlit run Stock\_Prediction.py*

2. Select the Stock company you want the prediction to run on

3. Select date range of at least 4 months.