

Session 34

Project Question

Session 34: Project

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1. Introduction

This assignment will help you to consolidate the concepts learnt in the session.

2. Problem Statement

Dataset Link

<u>Dataset</u>

Hint:

import pandas as pd

import numpy as np

import matplotlib.pyplot as plt

from pandas.tools.plotting import autocorrelation_plot

from statsmodels.graphics.tsaplots import plot_pacf

from statsmodels.tsa.arima_model import ARIMA, ARMAResults

import datetime

import sys

import seaborn as sns

import statsmodels

import statsmodels.stats.diagnostic as diag

from statsmodels.tsa.stattools import adfuller

from scipy.stats.mstats import normaltest

from matplotlib.pyplot import acorr

plt.style.use('fivethirtyeight')

%matplotlib inline

df = pd.read_csv('C:/Users/Downloads/sp500/data_stocks.csv')

df.head()

Out[6]:

	DATE	SP500	NASDAQ.AAL	NASDAQ.AAPL	NASDAQ.ADBE	NASDAQ.ADI	NASDAQ.ADP	NASDAQ.ADSK	NASDAQ.AKAM	NASDA
0	1491226200	2363.6101	42.3300	143.6800	129.6300	82.040	102.2300	85.2200	59.760	121.52
1	1491226260	2364.1001	42.3600	143.7000	130.3200	82.080	102.1400	85.6500	59.840	121.48
2	1491226320	2362.6799	42.3100	143.6901	130.2250	82.030	102.2125	85.5100	59.795	121.93
3	1491226380	2364.3101	42.3700	143.6400	130.0729	82.000	102.1400	85.4872	59.620	121.44
4	1491226440	2364.8501	42.5378	143.6600	129.8800	82.035	102.0600	85.7001	59.620	121.60

5 rows × 502 columns

Problem Statement:

Pick up the following stocks and generate forecasts accordingly

Stocks:

- 1. NASDAQ.AAPL
- 2. NASDAQ.ADP
- 3. NASDAQ.CBOE
- 4. NASDAQ.CSCO
- 5. NASDAQ.EBAY

NOTE: The solution shared through Github should contain the source code used and the screenshot of the output.

3. Output

N/A