

In this assignment students have to make ARIMA model over shampoo sales data and check the MSE between predicted and actual value.

Student can download data in .csv format from the following link:

<https://datamarket.com/data/set/22r0/sales-of-shampoo-over-a-three-year-period#!ds=22r0&display=line>

Hint:

Following is the command import

packages and data from pandas import

read_csv from pandas import datetime

from matplotlib import pyplot

from statsmodels.tsa.arima_model

import ARIMA from sklearn.metrics

import mean_squared_error def

parser(x):

return datetime.strptime('190'+x, '%Y-%m')

series = read_csv('shampoo-sales.csv', header=0, parse_dates=[0],
index_col=0, squeeze=True, date_parser=parser)