# Import basic packages for use

import pandas as pd

import numpy as np

import matplotlib.pyplot as plt

# load data into DataFrame

# Called df.head() to see first 5 rows

df = pd.read\_csv('MSACSR.csv',index\_col=0,parse\_dates=True)

df.head()

# Rolling sum for 3 months, 6 months, 12 months

# centered the data also

rolling\_3mo = df['MSACSR'].rolling(window=3,center=True)

rolling\_6mo = df['MSACSR'].rolling(window=6,center=True)

rolling\_12mo = df['MSACSR'].rolling(window=12,center=True)

# Wanted to do a rolling sum instead of a rolling average

mov\_avg\_3 = rolling\_3mo.sum()

mov\_avg\_6 = rolling\_6mo.sum()

mov\_avg\_12 = rolling\_12mo.sum()

# Plot the original data, 3 months rolling sum,6 months rolling sum, 12 months rolling sum

df.plot(label='Original Data')

mov\_avg\_3.plot(label='Moving Avg of 3')

mov\_avg\_6.plot(label='Moving Avg of 6')

mov\_avg\_12.plot(label='Moving Avg of 12')

plt.legend()

plt.show()

A picture containing text, plot, font, diagram

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