Filename: MA_pandas.py

Line #	Mem us	sage	Increm	nent	Occurrences	Line Contents
17	129.0	===== MiB	129.0	==== MiB	======================================	@profile
18	123.0	1111	123.0		-	<pre>def my_func():</pre>
19						#time and memory
20	129.0	MiR	0.0	MiR	1	start = time.time()
21	129.0		0.0		1	tracemalloc.start()
22	123.0	1110	0.0	1110	-	#loading dataset
	136.8	MiB	7.8	MiR	1	df =
					-	esktop/shell/dataset/MA_1m.npy'),
columns			C., 05C.	J,	241110 3117 20	.s.c.sp, s.re.11, daedse e, .m1py //s
	136.9	/	0.1	MiB	1	<pre>X = df["data"]</pre>
2					_	# split dataset
26	136.9	MiB	0.0	MiB	1	train_size = int(len(X) * 0.80)
27	136.9		0.0		_ 1	train, test = X[0:train_size],
X[trai	_				_	a and sees interest and entry
28		- ()]				#1
	n*****	*****	******	****	********	
29						# train autoregression
30	162.4	MiB	25.5	MiB	1	model = ARIMA(train, order=(0,
0, 1))						
31	1064.4	MiB	902.0	MiB	1	<pre>model_fit = model.fit()</pre>
32	1069.2		4.8		1	predictions =
model_fit.predict(start=len(train), end=len(train)+len(test)-1, dynamic=False)						
33					,,	#test accuracy
34	1069.2	MiB	0.0	MiB	1	error1 =
mean_squared_error(test, predictions)						
35	1069.2				1	<pre>print(error1)</pre>
36						#metrics
37	1069.2	MiB	0.0	MiB	1	<pre>end = time.time()</pre>
38	1069.2		0.0		1	t1=end-start
39	1069.2		0.0		1	
<pre>m1=tracemalloc.get_traced_memory()</pre>						
40	1069.2		$\frac{-}{0.0}$		1	d1=m1[1]-m1[0]
41	1069.2		0.0		1	print("The time of execution of
above program is :", t1/60)						
42	1069.2		0.0	MiB	1	<pre>print("(current memory usage)</pre>
:",m1[0]/1000000)						
43	1069.2	•	0.0	MiB	1	<pre>print("(peak memory usage)</pre>
:",m1[1]						1 ((1)) 0 /
44	1069.2	•	0.0	MiB	1	<pre>print("(memory usage)</pre>
:",d1/1000000)						
45	1069.2	MiB	0.0	MiB	1	<pre>tracemalloc.stop()</pre>
						1 1/