

Filename: MA_numpy.py

Line #	Mem usage	Increment	Occurrences	Line Contents
16	129.0 MiB	129.0 MiB	1	@profile
17				def my_func():
18				#time and memory
19	129.0 MiB	0.0 MiB	1	start = time.time()
20	129.1 MiB	0.0 MiB	1	tracemalloc.start()
21				# load dataset
22	136.7 MiB	7.7 MiB	1	X = np.load('C:/Users/Mriank
23				Ghosh, skttop/shell/dataset/MA_1m.npy')
24	136.7 MiB	0.0 MiB	1	# split dataset
25	136.7 MiB	0.0 MiB	1	train_size = int(len(X) * 0.80)
26				train, test = X[0:train_size],
27				X[train_size:len(X)]
28				#1
29				iteration*****
30				# train moving average
31				# fit model
32	156.1 MiB	19.3 MiB	1	model = ARIMA(train, order=(0,
33				0, 1))
34	960.5 MiB	804.5 MiB	1	model_fit = model.fit()
35	1005.4 MiB	44.8 MiB	1	predictions =
36				model_fit.predict(start=len(train), end=len(train)+len(test)-1, dynamic=False)
37				#test accuracy
38	1005.4 MiB	0.0 MiB	1	error1 =
39				mean_squared_error(test, predictions)
40	1005.4 MiB	0.0 MiB	1	print(error1)
41				#metrics
42	1005.4 MiB	0.0 MiB	1	end = time.time()
43	1005.4 MiB	0.0 MiB	1	t1=end-start
44	1005.4 MiB	0.0 MiB	1	m1=tracemalloc.get_traced_memory()
45	1005.4 MiB	0.0 MiB	1	d1=m1[1]-m1[0]
46	1005.4 MiB	0.0 MiB	1	print("The time of execution of
47				above program is :", t1/60)
48	1005.4 MiB	0.0 MiB	1	print("(current memory usage)
49				:",m1[0]/1000000)
50	1005.4 MiB	0.0 MiB	1	print("(peak memory usage)
51				:",m1[1]/1000000)
52	1005.4 MiB	0.0 MiB	1	print("(memory usage)
53				:",d1/1000000)
54	1005.4 MiB	0.0 MiB	1	tracemalloc.stop()