

Filename: MA_hdf5.py

Line #	Mem usage	Increment	Occurrences	Line Contents
17	134.0 MiB	134.0 MiB	1	@profile
18				def my_func():
19				#time and memory
20	134.0 MiB	0.0 MiB	1	start = time.time()
21	134.0 MiB	0.0 MiB	1	tracemalloc.start()
22				#reading hdf5 file
23	134.8 MiB	0.8 MiB	1	hf = h5py.File('1.hdf5', 'r')
24	134.8 MiB	0.0 MiB	1	hf.keys()
25	142.8 MiB	8.1 MiB	1	train,test =
				np.array(hf.get('train')),np.array(hf.get('test'))
26				
27				#1
iteration				*****
28				# train autoregression
29	162.1 MiB	19.3 MiB	1	model = ARIMA(train, order=(0,
0, 1))				
30	967.3 MiB	805.2 MiB	1	model_fit = model.fit()
31	1011.4 MiB	44.0 MiB	1	predictions =
				model_fit.predict(start=len(train), end=len(train)+len(test)-1, dynamic=False)
32				#test accuracy
33	1011.4 MiB	0.0 MiB	1	error1 =
				mean_squared_error(test, predictions)
34	1011.4 MiB	0.0 MiB	1	print(error1)
35				#metrics
36	1011.4 MiB	0.0 MiB	1	end = time.time()
37	1011.4 MiB	0.0 MiB	1	t1=end-start
38	1011.4 MiB	0.0 MiB	1	
				m1=tracemalloc.get_traced_memory()
39	1011.4 MiB	0.0 MiB	1	d1=m1[1]-m1[0]
40	1011.4 MiB	0.0 MiB	1	print("The time of execution of
				above program is :", t1/60)
41	1011.4 MiB	0.0 MiB	1	print("(current memory usage)
				:",m1[0]/1000000)
42	1011.4 MiB	0.0 MiB	1	print("(peak memory usage)
				:",m1[1]/1000000)
43	1011.4 MiB	0.0 MiB	1	print("(memory usage)
				:",d1/1000000)
44	1011.4 MiB	0.0 MiB	1	tracemalloc.stop()