api_timing_report

January 30, 2021

[19]:
```
import pandas as pd
import matplotlib
import matplotlib.pyplot as plt
import seaborn as sns
sns.set()
matplotlib.rcParams['figure.dpi'] = 100
```

[20]:
```
df = pd.read_csv('log/api_timing.csv')
```

[ ]:
```

```

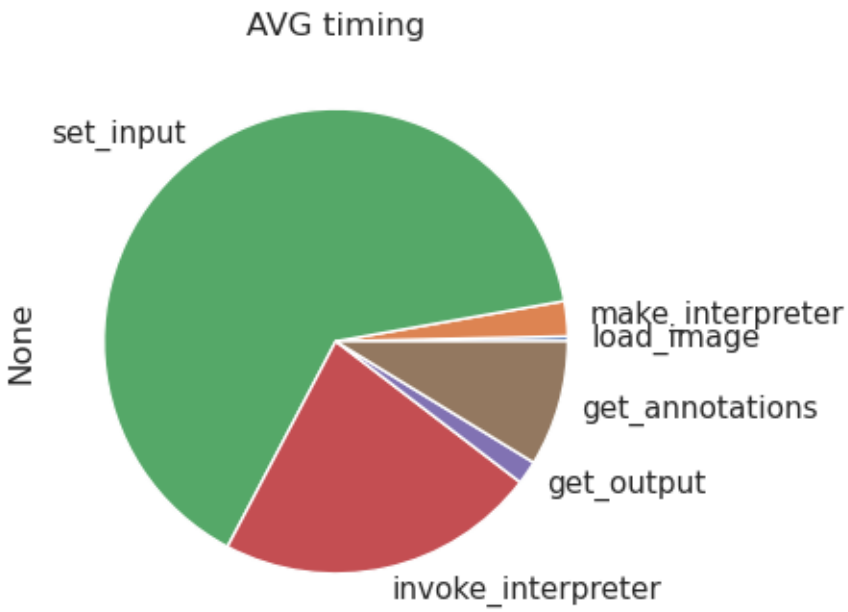
[21]:
```
df.tail()
```

[21]:

	load_image	make_interpreter	set_input	invoke_interpreter	get_output	get_annotations
1438	0.339238	0.044388	54.228640	20.471381	1.318786	6.386229
1439	0.258739	0.036722	50.730352	20.256289	1.305213	6.693523
1440	0.264091	0.037537	51.493050	20.524713	1.329953	7.038502
1441	0.259757	0.037000	53.231833	25.447212	1.957781	10.962342
1442	0.264350	0.037721	50.527445	20.477435	1.414971	7.350370

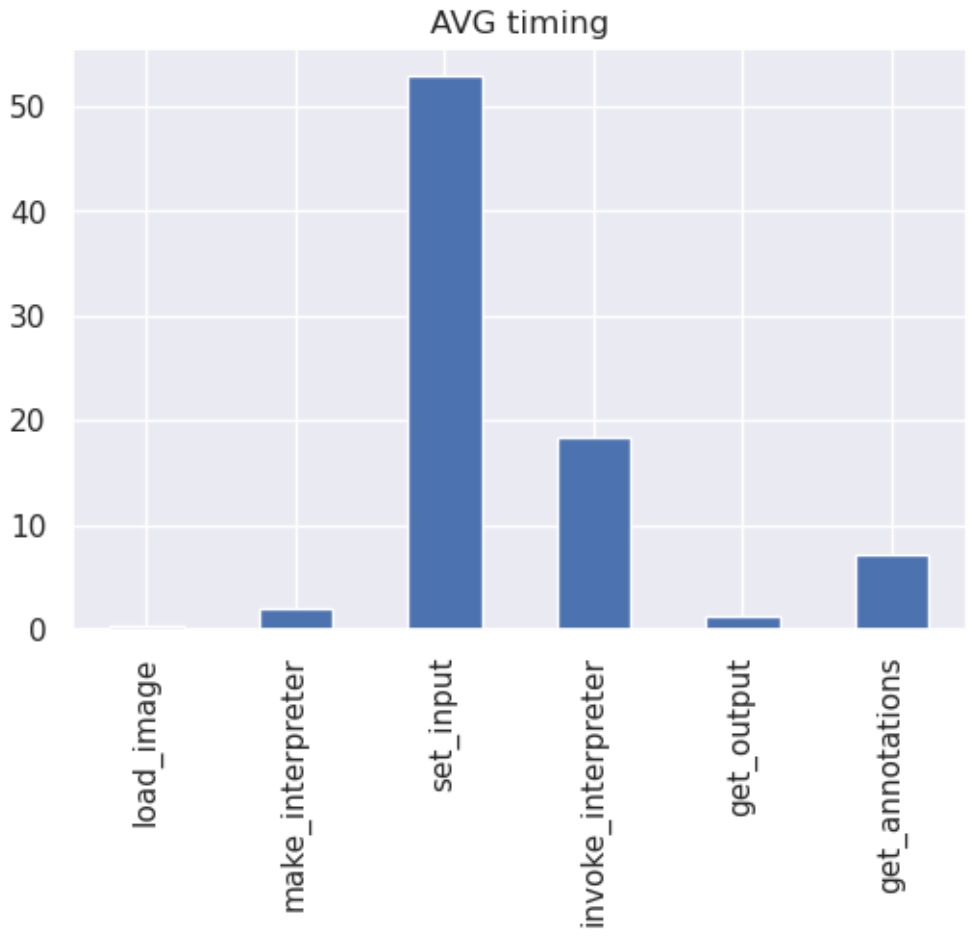
[22]:
```
plt.figure()
df.mean(axis=0).plot(kind='pie', title='AVG timing')
```

[22]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x7f2c919427d0>
```



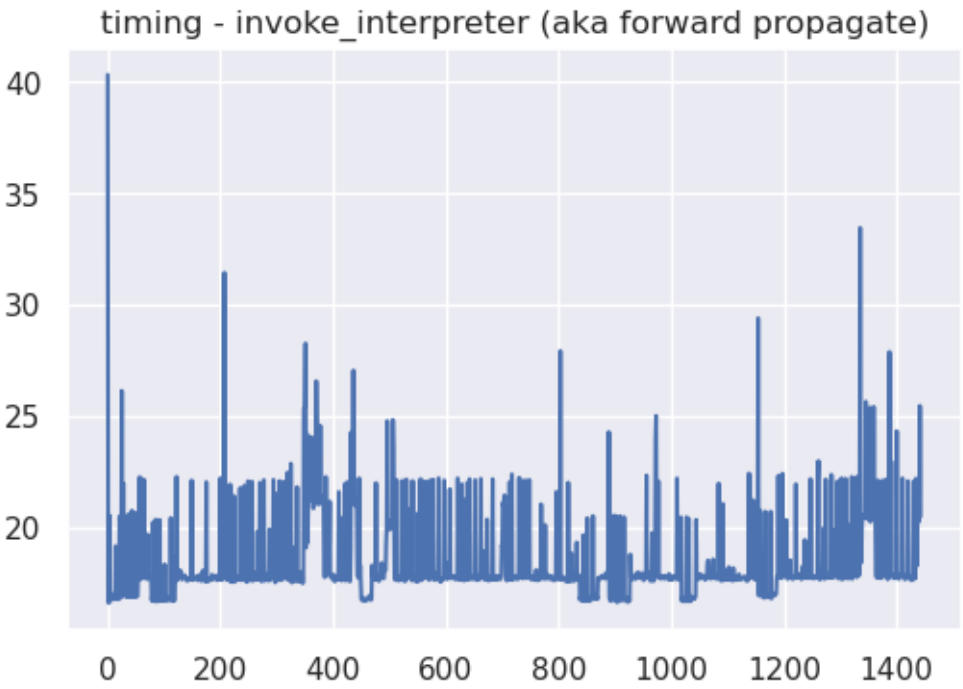
[23]:
```
df.mean(axis=0).plot(kind='bar', title='AVG timing')
```

[23]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x7f2c949ced10>
```



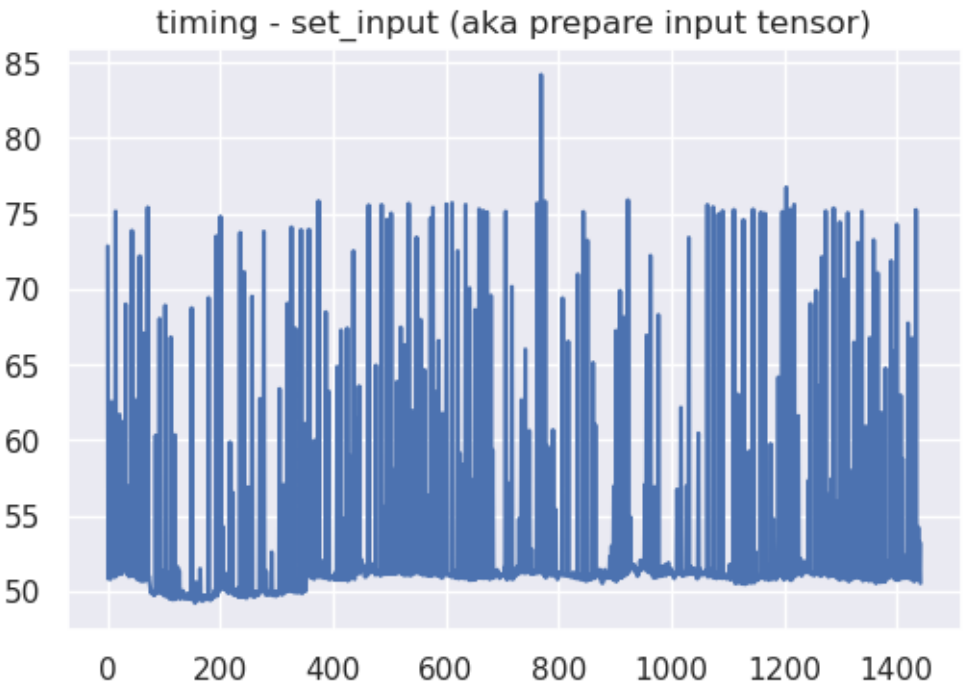
[24]:
```
df['invoke_interpreter'].plot(title='timing - invoke_interpreter (aka forward␣
↪propagate)')
```

[24]: <matplotlib.axes._subplots.AxesSubplot at 0x7f2c91c09a10>



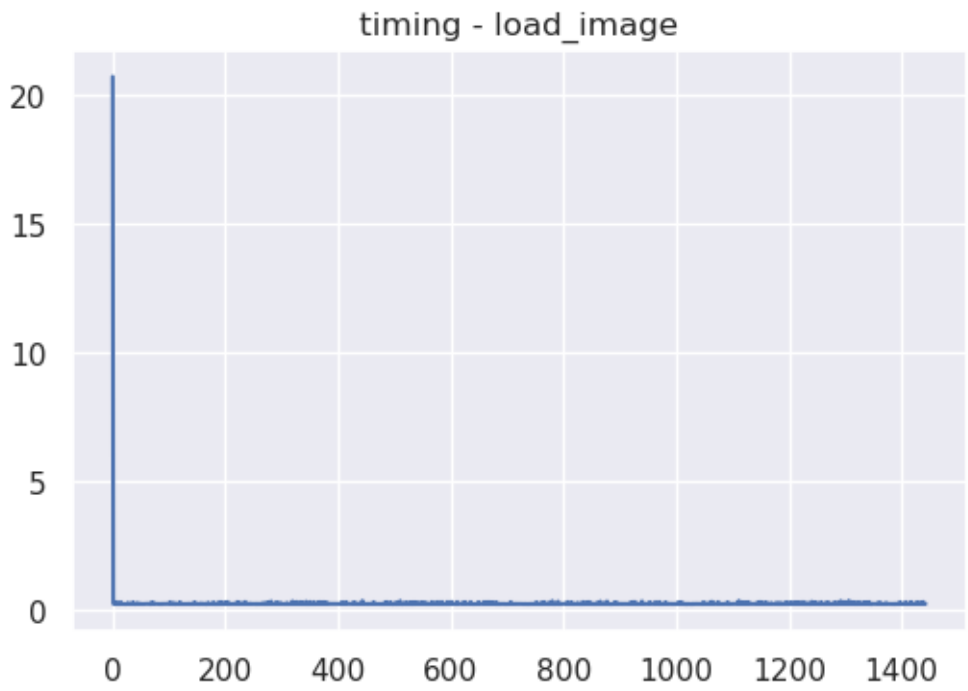
[25]:
```
df['set_input'].plot(title='timing - set_input (aka prepare input tensor)')
```

[25]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x7f2c915fdf90>
```



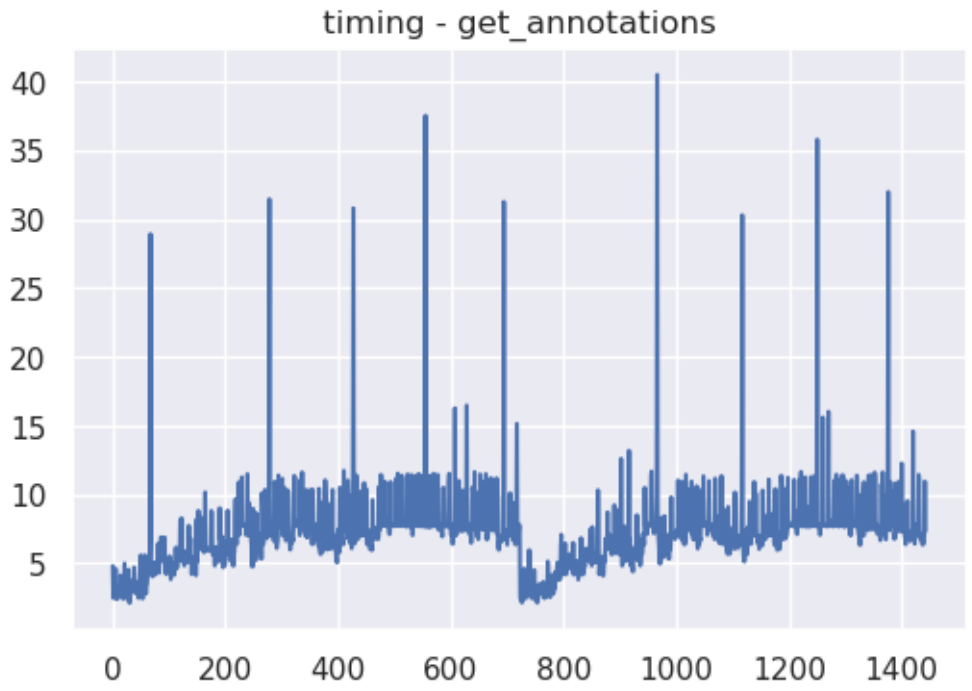
[26]:
```
df['load_image'].plot(title='timing - load_image')
```

[26]: <matplotlib.axes._subplots.AxesSubplot at 0x7f2c91560bd0>



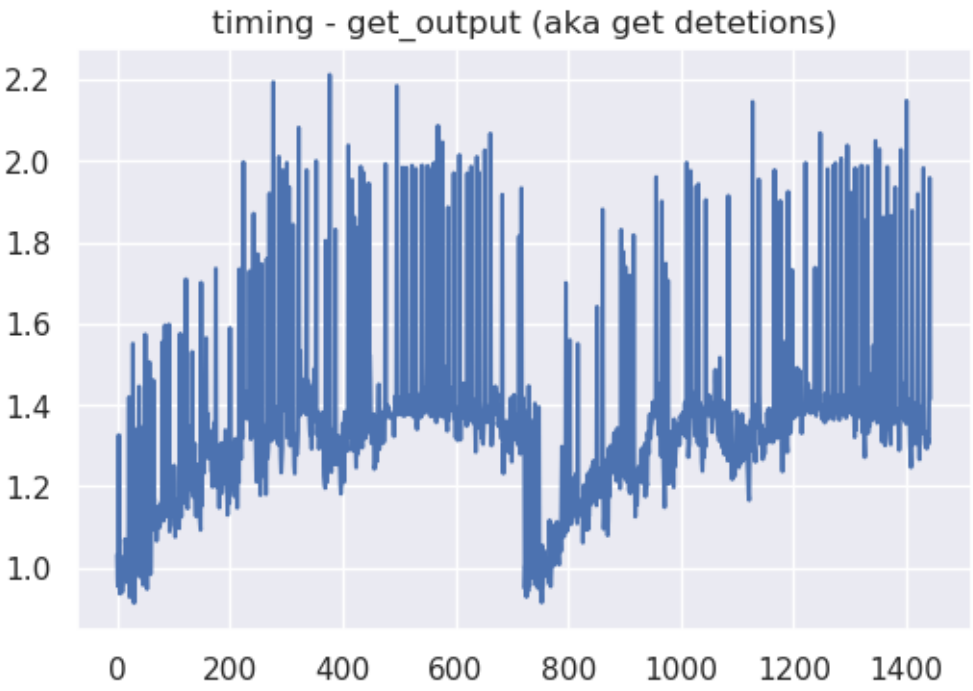
[27]:
```
df['get_annotations'].plot(title='timing - get_annotations')
```

[27]: <matplotlib.axes._subplots.AxesSubplot at 0x7f2c91519990>



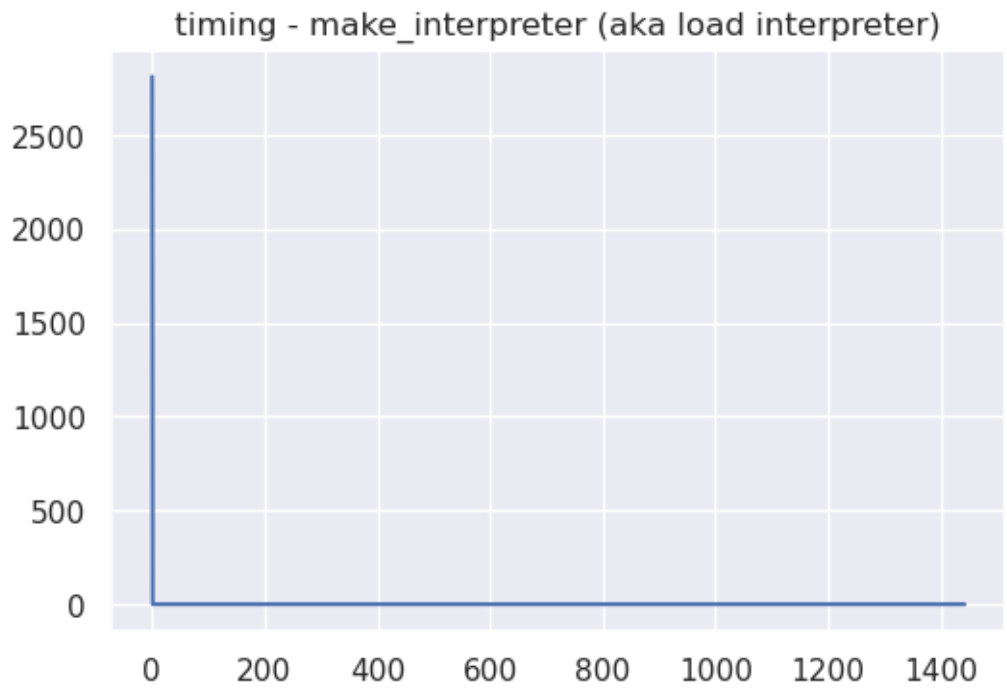
[28]:
```
df['get_output'].plot(title='timing - get_output (aka get detetions)')
```

[28]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x7f2c914b3590>
```



[29]:
```
df['make_interpreter'].plot(title='timing - make_interpreter (aka load␣
↪interpreter)')
```

[29]: <matplotlib.axes._subplots.AxesSubplot at 0x7f2c91420d10>



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