

api_timing_report

January 30, 2021

```
[5]: import pandas as pd
import matplotlib
import matplotlib.pyplot as plt
import seaborn as sns
sns.set()
matplotlib.rcParams['figure.dpi'] = 100
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[6]: df = pd.read_csv('log/api_timing.csv')
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[7]: df.tail()
```

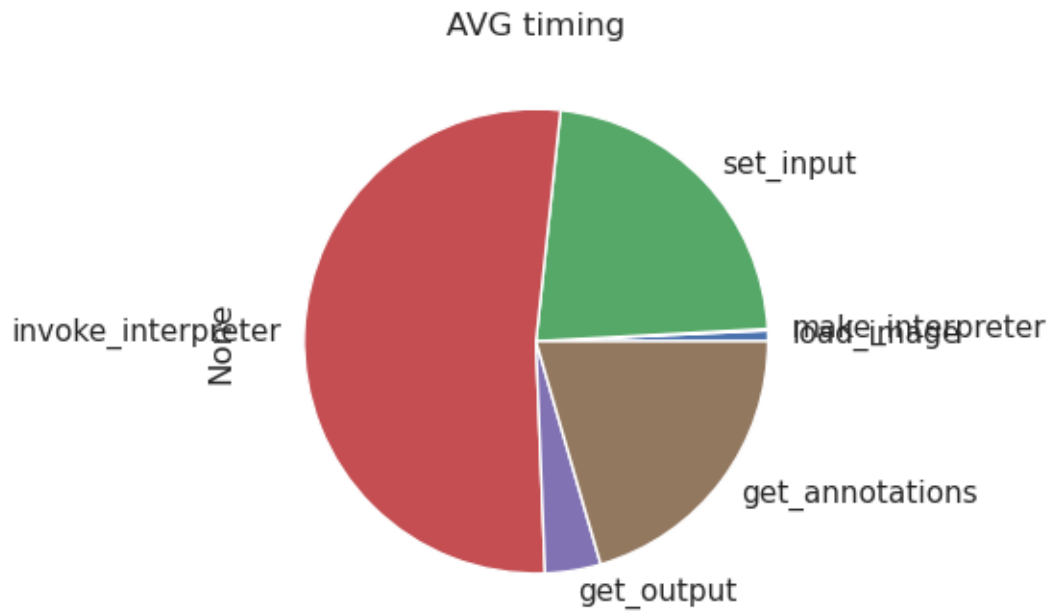
```
[7]:
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	load_image	make_interpreter	set_input	invoke_interpreter	\
35158	0.245146	0.034315	7.422721	16.861069	
35159	0.244646	0.033111	7.606719	16.902662	
35160	0.243850	0.033741	7.445239	16.986142	
35161	0.246794	0.034870	7.740551	16.876291	
35162	0.249016	0.034962	7.406684	16.829866	

	get_output	get_annotations
35158	1.391134	7.608738
35159	1.319468	10.142434
35160	1.317875	7.037873
35161	1.321579	6.378435
35162	1.275450	6.490137

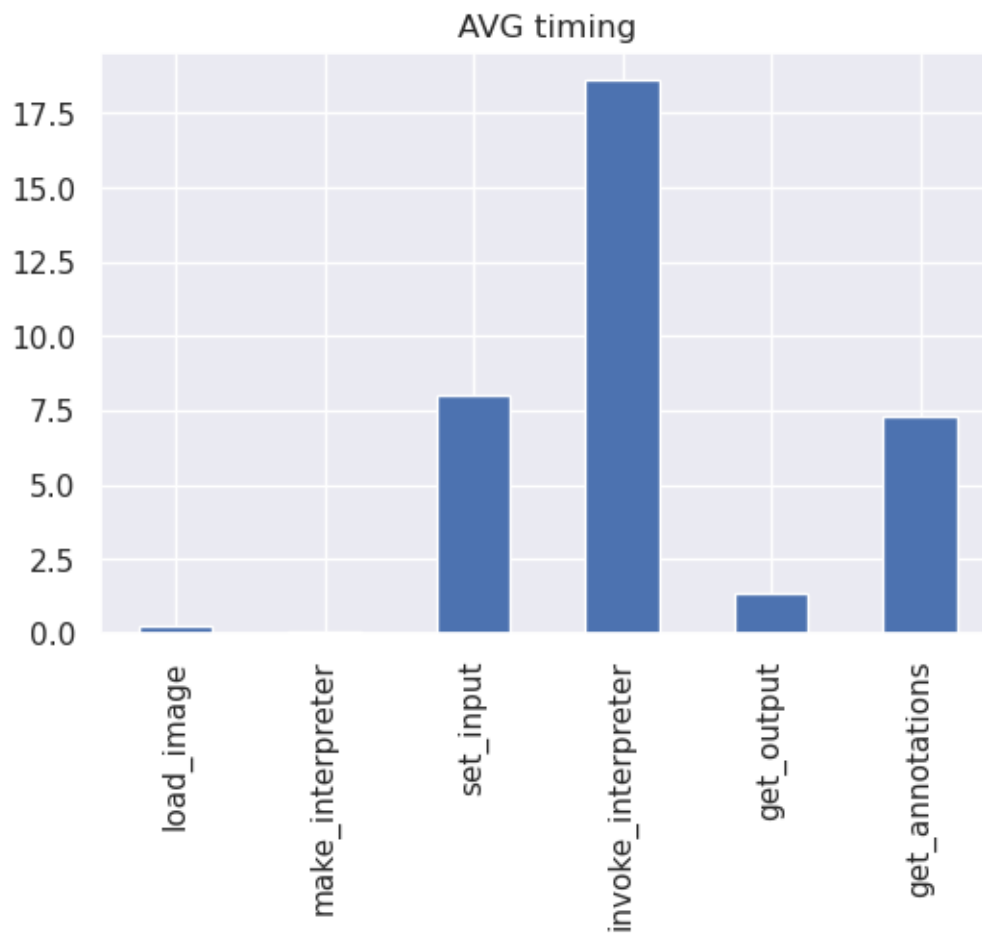
```
[8]: plt.figure()
df.mean(axis=0).plot(kind='pie', title='AVG timing')
```

```
[8]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbe14567a50>
```



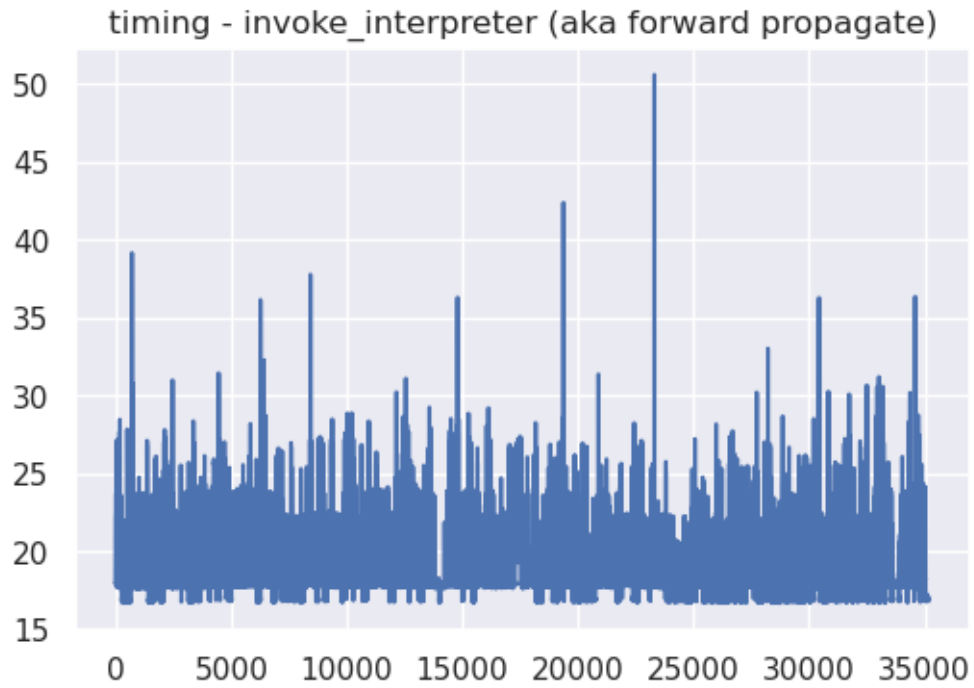
```
[9]: df.mean(axis=0).plot(kind='bar', title='AVG timing')
```

```
[9]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbe143b1fd0>
```



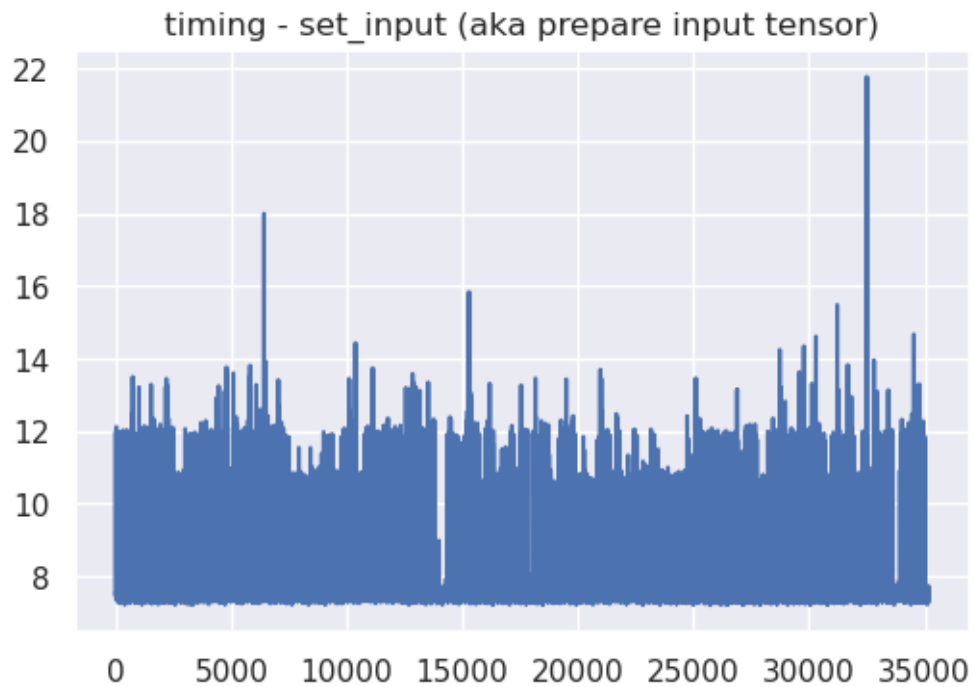
```
[10]: df['invoke_interpreter'].plot(title='timing - invoke_interpreter (aka forward_␣  
      ↪propagate)')
```

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[10]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbe1432a050>
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[11]: df['set_input'].plot(title='timing - set_input (aka prepare input tensor)')
```

```
[11]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbe1423e090>
```



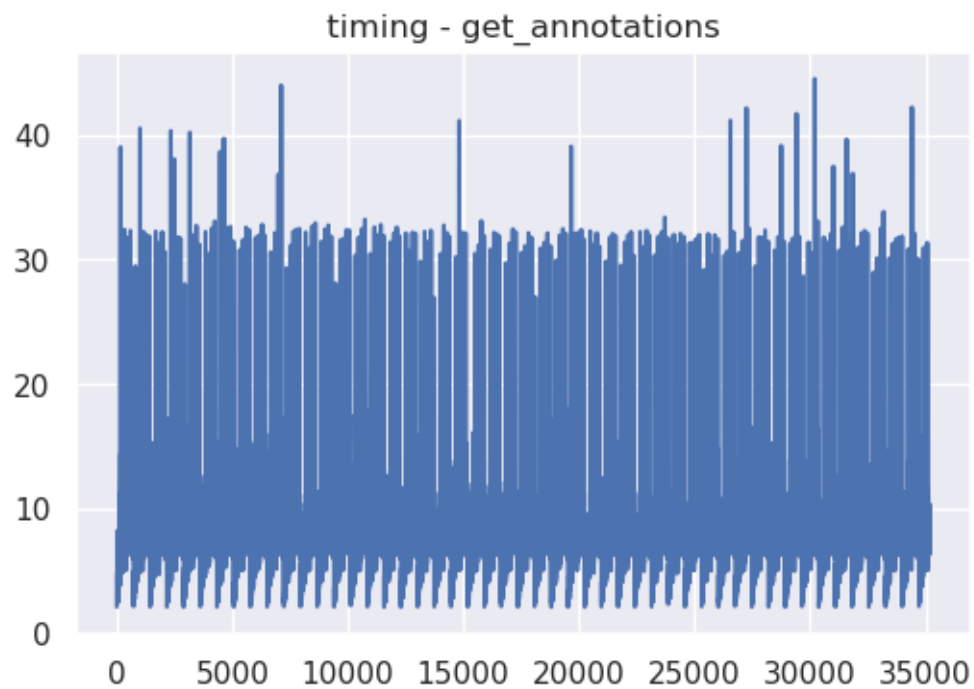
```
[12]: df['load_image'].plot(title='timing - load_image')
```

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[12]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbe14244650>
```



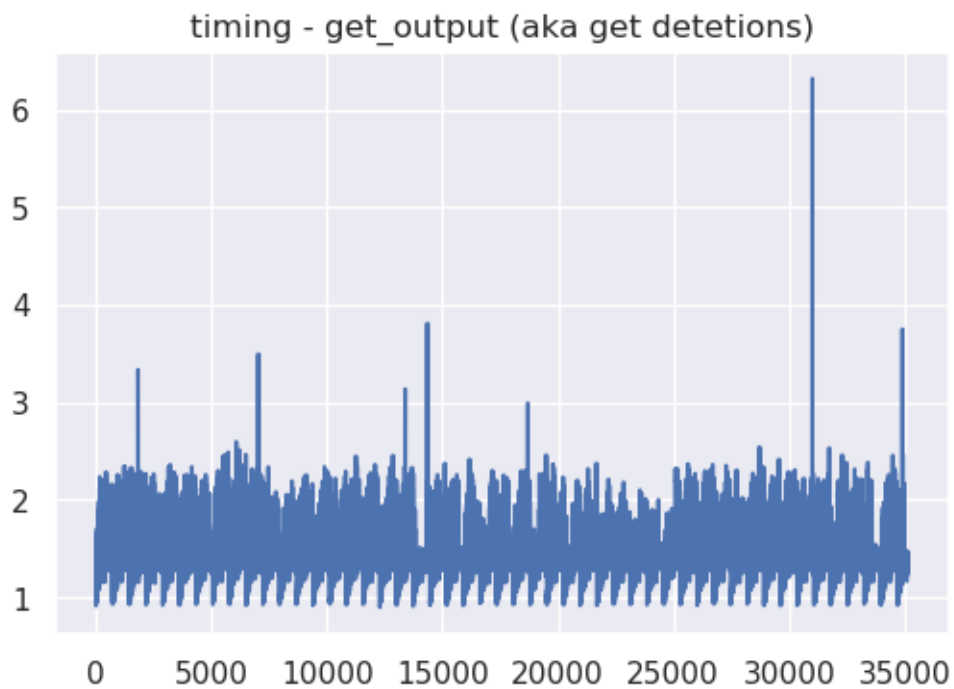
```
[13]: df['get_annotations'].plot(title='timing - get_annotations')
```

```
[13]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbe139b2cd0>
```



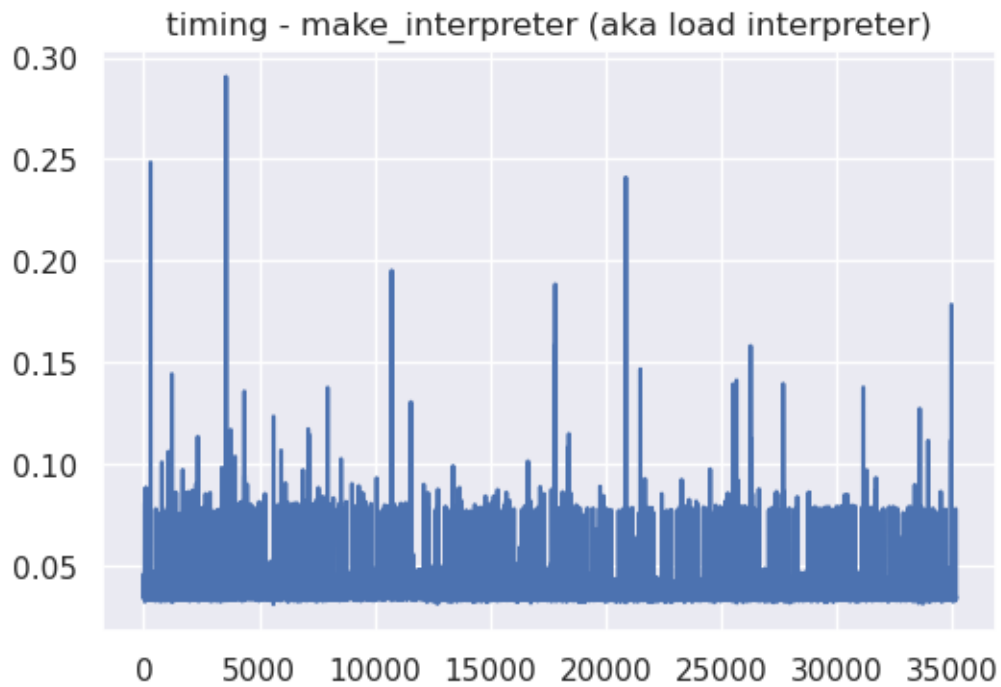
```
[14]: df['get_output'].plot(title='timing - get_output (aka get detetions)')
```

```
[14]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbe137b7210>
```



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[15]: df['make_interpreter'].plot(title='timing - make_interpreter (aka load_↪interpreter)')
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[15]: <matplotlib.axes._subplots.AxesSubplot at 0x7fbe1399c350>
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