CAISO_forecasts

September 6, 2022

[1]:
```
import pandas as pd
import numpy as np
```

[6]:
```
CAISO_demand = pd.read_csv('CAISO_demand.csv')
CAISO_demand.head()
```

[6]:

	Hour-ahead forecast	Demand	Day-ahead net forecast	Net demand	\
0	31343	31342	28606	28909	
1	30930	31292	26860	28778	
2	30930	31354	26860	28803	
3	30930	31221	26860	28735	
4	30464	31162	26860	28622	

	Demand response event	Month	Day	Hour	Minute
0	NaN	9	1	0	0
1	NaN	9	1	0	5
2	NaN	9	1	0	10
3	NaN	9	1	0	15
4	NaN	9	1	0	20

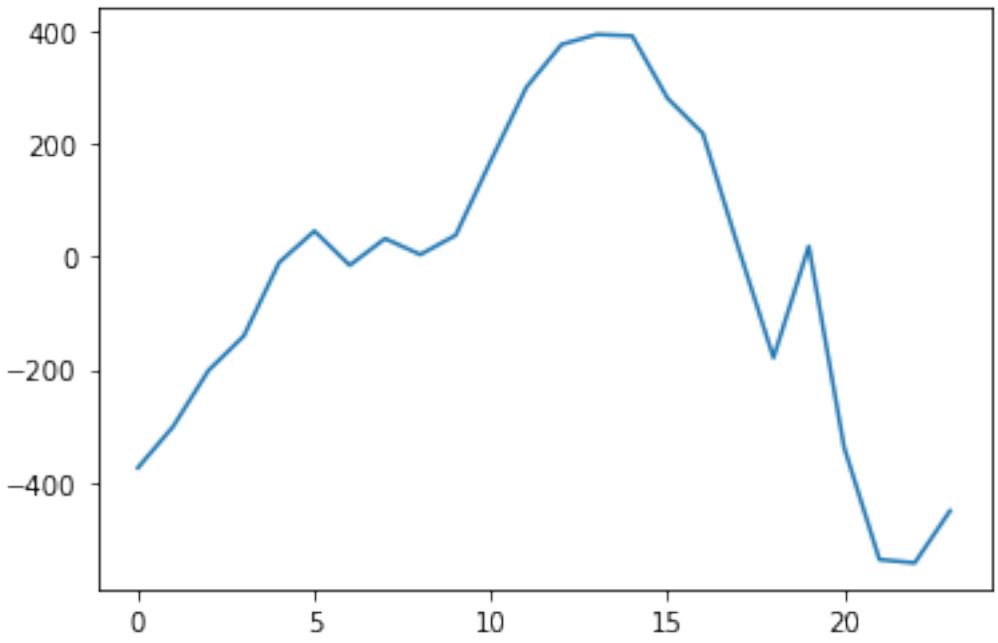
[7]:
```
CAISO_demand['Forecast error'] = CAISO_demand['Hour-ahead forecast'] -␣
↪CAISO_demand['Demand']
```

[11]:
```
grouped = CAISO_demand['Forecast error'].groupby(CAISO_demand['Hour'])
```

[12]:
```
import matplotlib.pyplot as plt
```

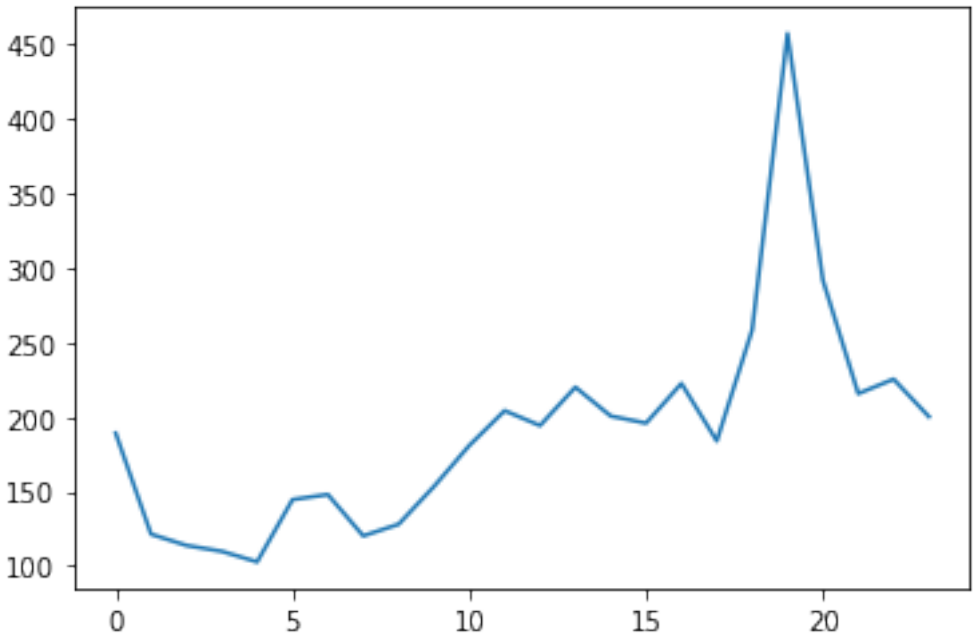
[15]:
```
plt.plot(grouped.mean())
```

[15]:
```
[<matplotlib.lines.Line2D at 0x7fb9395a9280>]
```



[16]:
```
plt.plot(grouped.std())
```

[16]: [<matplotlib.lines.Line2D at 0x7fb9395edee0>]



[18]:
```
CAISO_demand['Demand response event'].unique()
```

[18]:
```
array([nan,  1.])
```

[ ]:
```

```