

Wavelet Transform

In this example we will be taking a wind speed file and putting it into the Raven wavelet transform.

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

```
In [2]: data = pd.read_csv("T1.csv")
# data
```

```
In [3]: dataLatest = data[['LV ActivePower (kW)', 'Wind Speed (m/s)']]
# dataLatest
```

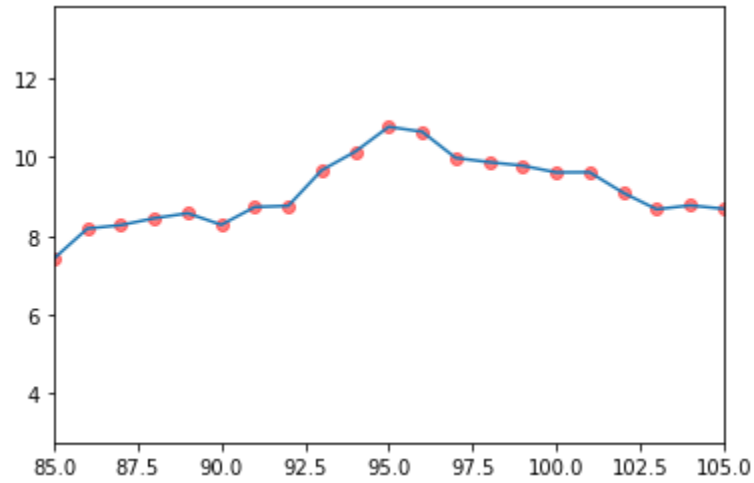
```
In [4]: df = dataLatest.iloc[0:144]
df.to_csv('T2.csv')
# df
```

```
In [5]: import matplotlib.pyplot as plt
```

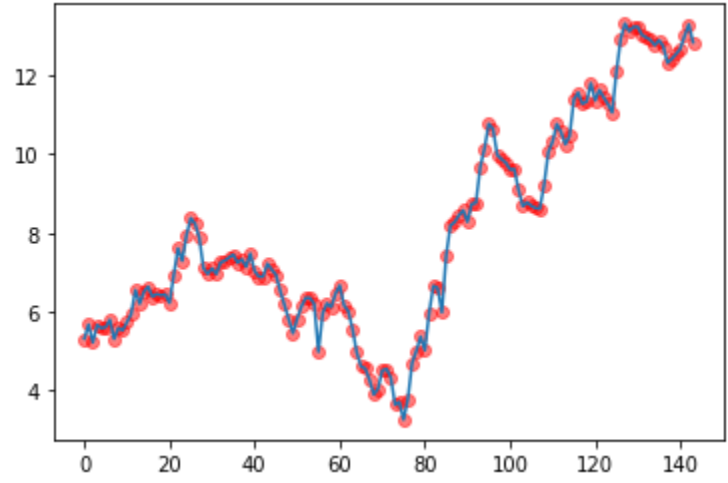
```
In [6]: y = df['Wind Speed (m/s)']

dat = pd.read_csv('T3.csv')
# print(dat)
data = pd.read_csv('T4.csv')
# print(data)

plt.plot(dat.seconds, y, 'o', alpha=0.5, color='red')
plt.plot(dat.seconds, dat.signal2)
plt.xlim(85,105)
plt.show()
```



```
In [7]: plt.plot(dat.seconds, y, 'o', alpha=0.5, color='red')
plt.plot(dat.seconds, dat.signal2)
plt.show()
```



```
In [ ]:
```