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Electricity Price Prediction using Python

I will start the task of electricity price prediction by importing the necessary Python libraries and the dataset that we need for this task:

Import pandas as pd

Import numpy as np

```
Data=pd.read_csv(https://raw.githubusercontent.com/amankharwal/Website-data/master/electricity.csv)
```

```
Print(data.head())
```

```
DateTime Holiday ... SystemLoad
```

```
EP2.SMPEP2
```

```
0 01/11/2011 00:00  None ...    3159.60  54.32
1 01/11/2011 00:30  None ...    2973.01  54.23
2 01/11/2011 01:00  None ...    2834.00  54.23
3 01/11/2011 01:30  None ...    2725.99  53.47
4 01/11/2011 02:00  None ...    2655.64  39.87
```

[5 rows x 18 columns]

Let's have a look at all the columns of this dataset:

1. data.info()

```
DateTime      0
```

Holiday	0
HolidayFlag	0
DayOfWeek	0
WeekOfYear	0
Day	0
Month	0
Year	0
PeriodOfDay	0
ForecastWindProduction	5
SystemLoadEA	2
SMPEA	2
ORKTemperature	295
ORKWindspeed	299
CO2Intensity	7
ActualWindProduction	5
SystemLoadEP2	2
SMPEP2	2

Dtype: int64

So there are some columns with null values, I will drop all these rows containing null values from the dataset:

```
Data = data.dropna()
```

Now let's have a look at the correlation between all the columns in the dataset:

Import seaborn as sns

Import matplotlib.pyplot as plt

```
Correlations = data.corr(method='pearson')
```

```
Plt.figure(figsize=(16, 12))
```

```
Sns.heatmap(correlations, cmap="coolwarm", annot=True)
```

```
Plt.show()
```