

## MaxAbsScaling

Scales the variable between -1 and 1

$$X_{scaled} = \frac{X}{max(|X|)}$$



## MaxAbsScaling: example

Price
100
90
50
40
20
100
50
60
120
40
200

Max = 200
Obs.
Max value

Price
0.50
0.45
0.25
0.20
0.10
0.50
0.25
0.30
0.60
0.20
1.00

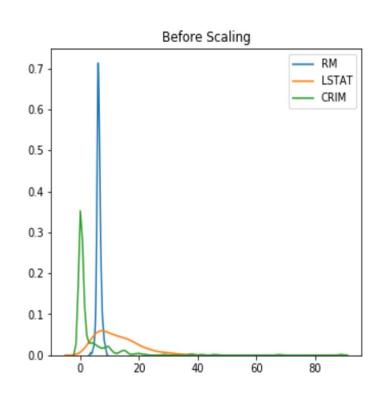


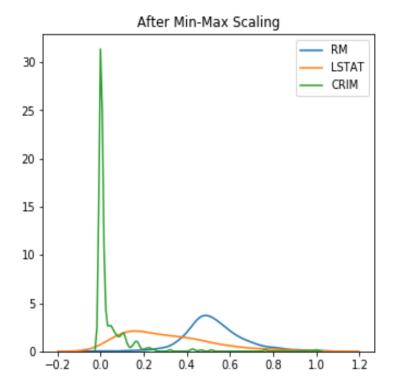
### MaxAbsScaling: summary

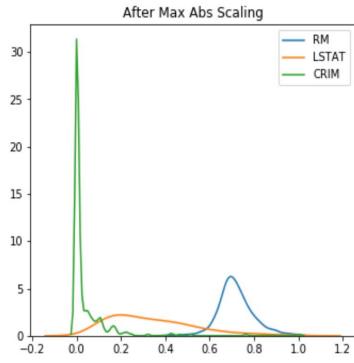
- Mean not centred
- Variance not scaled
- Scikit-learn recommends use with:
  - data that is centred
  - sparse matrices



### MaxAbsScaling: Notebook

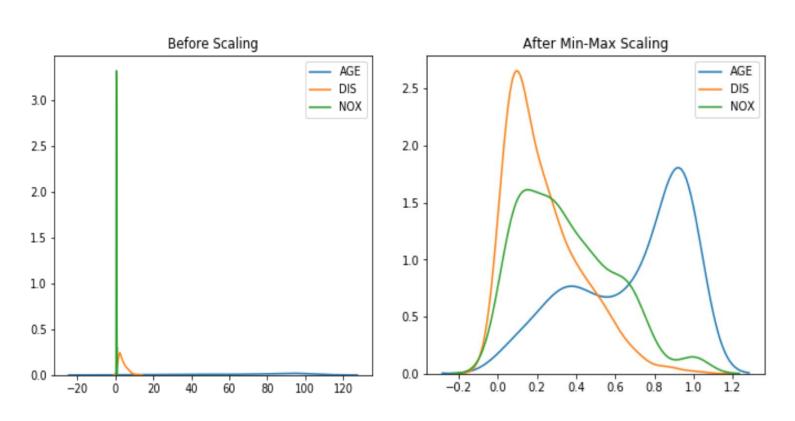


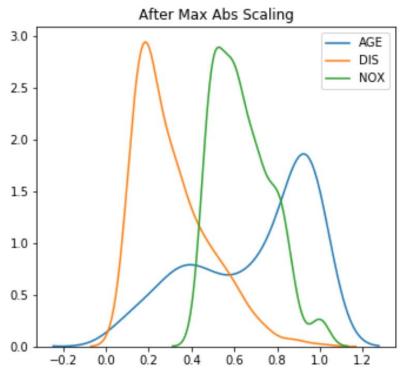






## MaxAbsScaling: Notebook







#### **Accompanying Jupyter Notebook**



Read the accompanying
Jupyter Notebook

MaxAbsScaling with Scikit-learn





# THANK YOU

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