# Quality Metrices Measuring the Quality of our Predictions

# R. Squared

#### COEFFICIENT OF DETERMINATION

In econometrics, it can be explained as the percentage of Variance explained by the model as compared to the Mean

sklearn. metrics. 22\_some

 $(-\infty,1]$ 

#### Mean Absolute Error

It has the same unit of measurement as the original series.

Eklearn. metrice. mean\_absolute-error

#### Median Absolute Error

Particularly Interesting metric because it is nobust to outliers

Sklearn. metrics. median\_absolute\_error

## Mean Squared Error

#### MOST COMMONLY USED

It gives higher penalty to bigger mistakes & vice versa

sklearn. metrices. mean\_equared\_erros

# Mean Squared logarithmeric Error

Practically the same as Mean Squared Errow, except for the fact that we take logarithm of the Original series. As a result, we give attention to small mistakes as well.

USEFUL WHEN DATA HAS EXPONENTIAL TRENDS

Sklearn. metrics. mean\_squared\_log\_erros

### Mean Absolute Percentage Error

Same as Mean Absolute Error, but in Percentage. Convenient to explain the quality of the model