## 7. Standerd scaler,

it calculates the mean and standard deviation of the

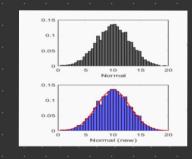
data set and normalize it subtracing the mean

and dividing by standard devision.

$$z=rac{x-\mu}{\sigma}$$

x it is ofen used for data, that have normal distribution.

(Regressian task)

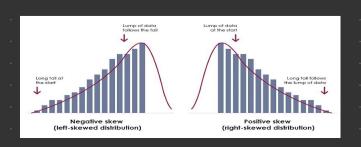


2. Min Max Scaler

it is scaled the Jata set between 0 and 1, the maximum and minimum values in the scaled Jata set are 1 and

$$x_{scaled} = rac{x - x_{min}}{x_{max} - x_{min}}$$

it used for data that is skewed.



3. Robust Scaler removes median and scale the data according

to quantile range Iar.

IAR is the range between the 117 (25the quantile) and 3rd

quartile (75th quantile)

$$X_{ ext{scale}} = rac{x_i - x_{ ext{med}}}{x_{75} - x_{25}}$$

. It is often used for Jala that has onlivers or is heavily.

classification task.