

# Scaling

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Scaling is always applied on continuous numerical columns.

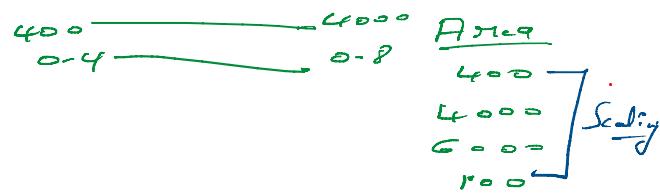


## Normalization

→ Min max Scaler

It transforms all the values into a scale of 0 to 1 or range.

$$\text{Minmax} = \frac{x - x_{\min}}{x_{\max} - x_{\min}}$$



## Standardization

→ Standard Scaler      Standardization

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

$\mu \rightarrow \text{mean}$

$\sigma \rightarrow \text{standard deviation}$

It transforms all the values into a scale of Z value.

## Top

- \* Scaling is important to transform continuous data into certain scale.
- \* Scaling is important in distance based algorithms.