

# STANDARDIZATION

Standardized feature value

Value of the  $i$ th observation

Mean of the feature vector

Standard deviation of the feature vector

$$X'_i = \frac{X_i - \bar{X}}{\sigma}$$

Standardization is a common scaling method.  $X'_i$  represents the number of standard deviations each value is from the mean value. It rescales a feature to have a mean of 0 and unit variance.

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