- Linear scaling to unit range:
 - Given a lower bound l and an upper bound u for a feature $x \in \mathbb{R}$, $\tilde{x} = \frac{x-l}{u-l}$
- results in \tilde{x} being in the [0,1] range.

► Linear scaling to unit variance:

A feature $x \in \mathbb{R}$ can be transformed to a random variable with zero mean and unit variance as

zero mean and unit variance as
$$\tilde{x} = \frac{x - \mu}{z}$$

 σ where μ and σ are the sample mean and the sample standard deviation of that feature, respectively.