Normalization rescales the values into a range of [0,1]. This might be useful in some cases where all parameters need to have the same positive scale. However, the outliers from the data set are lost.

𝑋𝑐ℎ𝑎𝑛𝑔𝑒𝑑=𝑋−𝑋𝑚𝑖𝑛𝑋𝑚𝑎𝑥−𝑋𝑚𝑖𝑛Xchanged=X−XminXmax−Xmin

Standardization rescales data to have a mean (𝜇μ) of 0 and standard deviation (𝜎σ) of 1 (unit variance).

𝑋𝑐ℎ𝑎𝑛𝑔𝑒𝑑=𝑋−𝜇𝜎Xchanged=X−μσ

For most applications standardization is recommended.

