MIN MAX SCALER

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1. Min-Max Scaler

How it works:

Transforms the data so that all values are rescaled to fit within a specified range, typically between 0 and 1.

Steps:

1. **Find the minimum and maximum of the data:**

$$\min = \min(x), \quad \max = \max(x)$$

2. **Rescale each data point:**
   For every x_i in the dataset:

$$x_i' = \frac{x_i - \min}{\max - \min}$$

3. **If scaling to a different range, such as [a, b]:**
   Use:

$$x_i' = a + \left(\frac{x_i - \min}{\max - \min} \right) \cdot (b - a)$$

Use Case: When all features need to be scaled to the same range, e.g., for neural networks or models sensitive to feature magnitudes.