

Day-7

Transformer

Function Transformer:

A **Function Transformer** in machine learning allows you to apply a custom Python function to your data for preprocessing.

Types:

1. **Log Transformation:** Applies the natural logarithm to each element.
2. **Square Root Transformation:** Applies the square root function to each element.
3. **Custom Transformation:** Apply any custom function.

Power Transformer:

A **Power Transformer** is used to stabilise variance and make the data more Gaussian-like, improving model performance.

Types:

1. **Yeo-Johnson Transformation:**

Description: Applies a power transformation that can handle both positive and negative values.

2. **Box-Cox Transformation:**

Description: Applies a power transformation to positive values only, transforming the data to approximate a normal distribution.