

## What is a Rectified Linear Unit?

A Rectified Linear Unit is a form of [activation function](#) used commonly in [deep learning](#) models. In essence, the function returns 0 if it receives a negative input, and if it receives a positive value, the function will return back the same positive value. The function is understood as:

$$f(x)=\max(0,x)$$

The rectified linear unit, or [ReLU](#), allows for the deep learning model to account for non-linearities and specific interaction effects.