# Backpropagation: Forward and Backward Pass

**Forward Pass**



| Input $x$ | Hidden 1 $h_1$ | Hidden 2 $h_2$ | Output $\hat{y}$ | Loss $L$ |

$\frac{\partial L}{\partial x}$  $\frac{\partial L}{\partial h_1}$  $\frac{\partial L}{\partial h_2}$  $\frac{\partial L}{\partial \hat{y}}$

**Backward Pass (Gradients)**