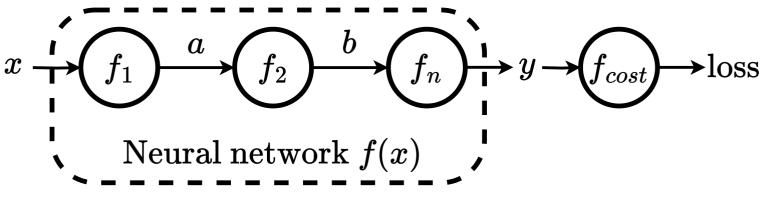
Forward pass  $F(x) = f_{cost}(f(x))$ 



Backward pass  $F'(x) = \frac{\partial \log s}{\partial x}$   $\frac{\partial a}{\partial x} \leftarrow \frac{\partial b}{\partial a} \leftarrow \frac{\partial \log s}{\partial y}$ 

$$\frac{\partial \log S}{\partial y}$$