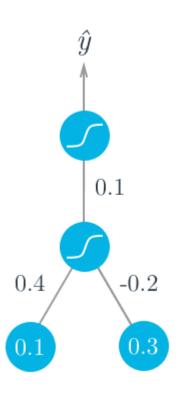
\equiv

with sigmoid activations on the hidden and output units. The following image depicts this network. (**Note:** the input values are shown as nodes at the bottom of the image, while the network's output value is shown as \hat{y} at the top. The inputs themselves do not count as a layer, which is why this is considered a two layer network.)



Assume we're trying to fit some binary data and the target is y=1. We'll start with the forward pass, first calculating the input to the hidden unit

$$h = \sum_i w_i x_i = 0.1 imes 0.4 - 0.2 imes 0.3 = -0.02$$