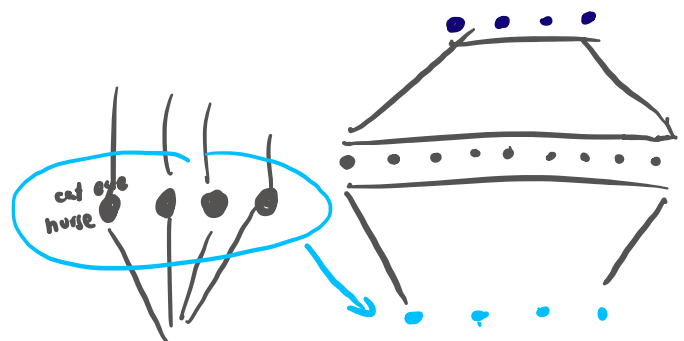
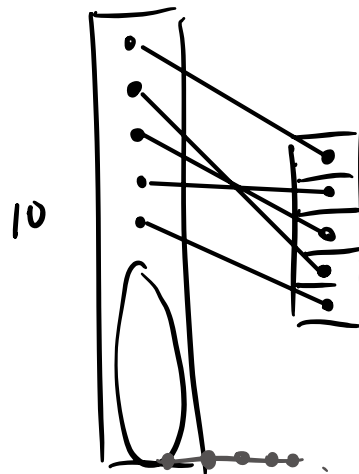
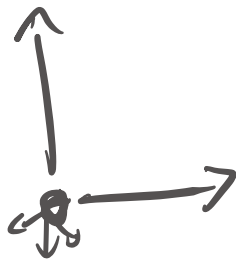


$relu = nn.ReLU()$

$relu(prod$

1 0.1 0.



$\rightarrow w_1 \rightarrow \text{ReLU} \rightarrow w_2 \rightarrow +b$

f_2

		ON	OFF
ON		p^2	$p(1-p)$
OFF		$p(1-p)$	$(1-p)^2$

f_1

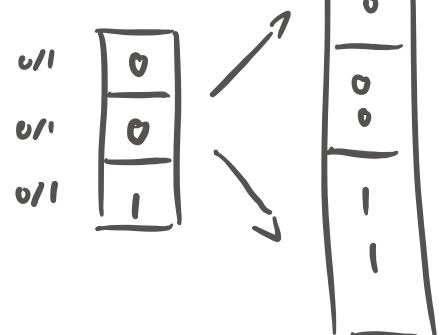
		ON	OFF
ON		p	0
OFF		0	$1-p$

		ON	OFF
ON		0	p
OFF		p	$1-2p$

01
10
00

$p/(1-p)$ p

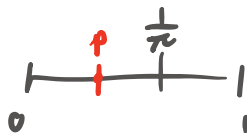
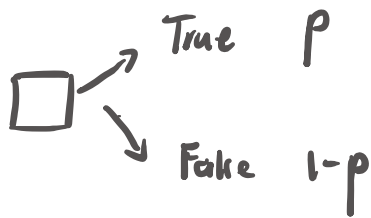
$\frac{p}{1-p}$



11:p
00:1-

0/1 0/1 0/1

1:p
0:1-p



$cp?$:

†, where (condition, if T, if F)

2	4	6
---	---	---

7	10	11
---	----	----

2 9 4 10 6 11

$400^{-0.5}$

400^{-1}

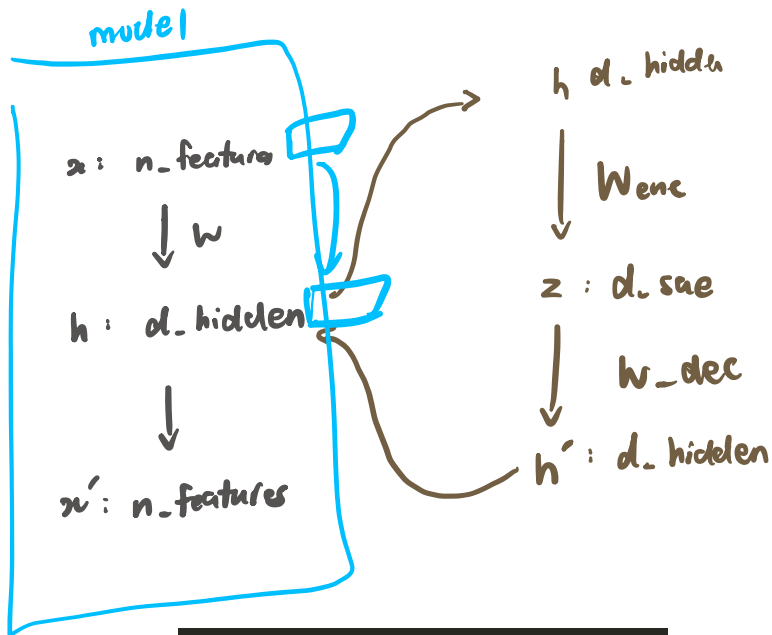
+

↓

20^{-1}
0.05

0.0025

x
... inst n_feats



$$h = Wx$$

$$x' = \text{ReLU}(W^T h + b)$$

$$z = \text{ReLU}(W_{enc}(h - b_{dec}) + b_{enc})$$

$$h' = W_{dec}z + b_{dec}$$