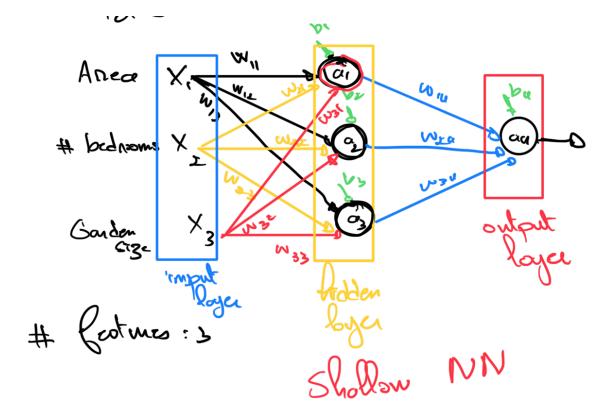
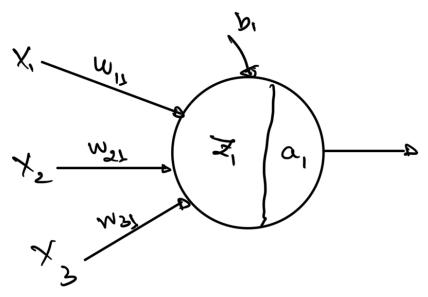
Neural Networks





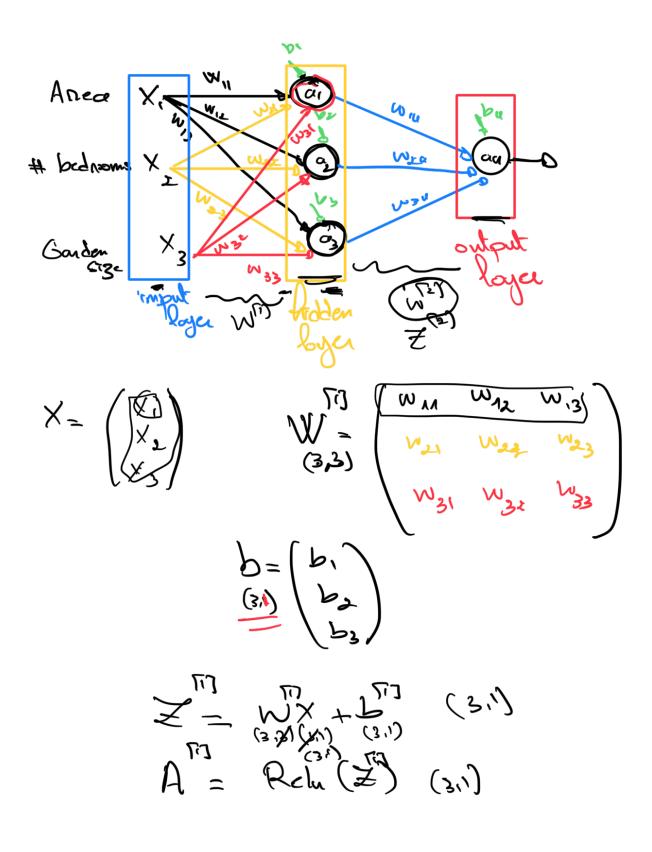
$$-0 Z_{1} = w_{1} X_{1} + w_{21} X_{2} + w_{31} X_{3} + b_{1}$$

$$-0 Q_{1} = f(Z_{1}) = G(Z_{1})$$

$$Z_{2} = w_{12} X_{1} + w_{22} X_{2} + w_{23} X_{3} + b_{2}$$

$$Q_{2} = f(Z_{2})$$

Z = w x x + w x + w 33 x 3+ b a3=6 (×3) Zn = Wman + Wznaz + Wzna + br au = 3 onton Disten hidden "input

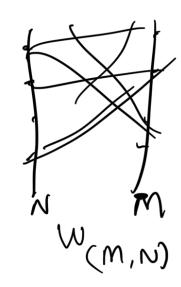


$$\mathcal{A}_{23} = \left(w^{11} + w^{21} + w^{31} \right)$$

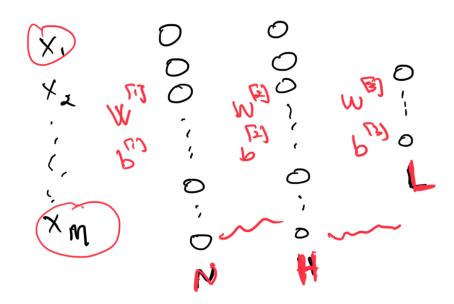
$$\mathcal{A}_{23} = \left(w^{11} + w^{21} + w^{31} \right)$$

$$\mathcal{A}_{23} = \left(w^{11} + w^{21} + w^{31} \right)$$

$$A = \sum_{(i,j)} (i,j)$$



General Cox



A features: M

MNH WB): (L,H) P): (r'v) Examin Neural Network with 3 hidden loyer each widden loger has 5 newsus with input 2 neuros. with out put I newson. 1) Represent tu NN (2) court the learnable parameters.

Exerci &

5 by with , man bias

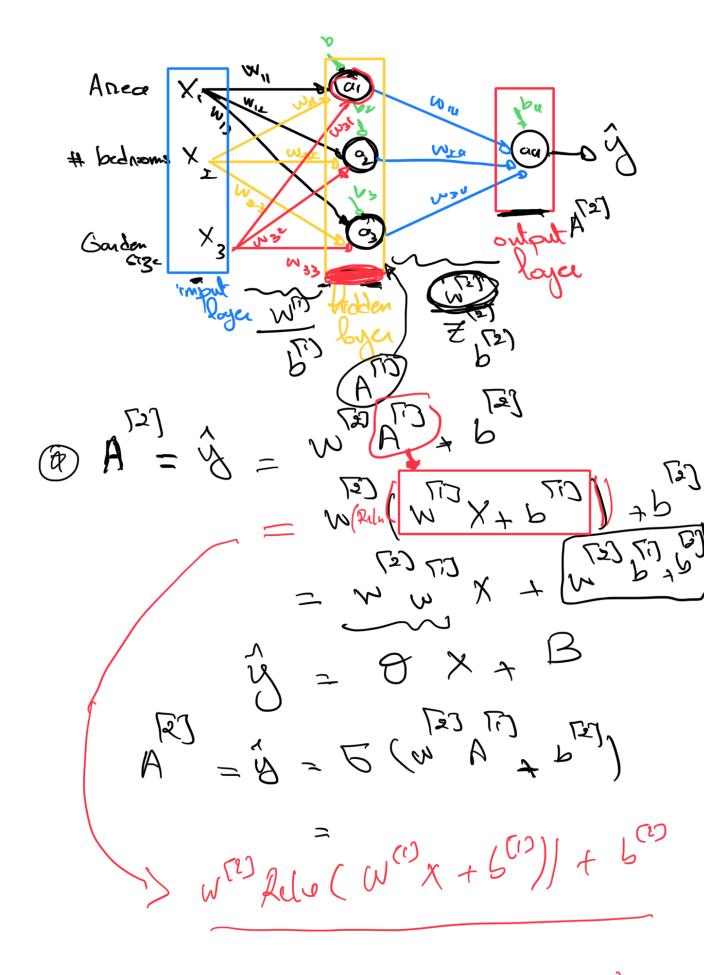
5 by 5 5 5 5

5 5 5 5

4 5 4 5 4 5 4 5 4 5 7 5

Dias

120



F Rela(x)

