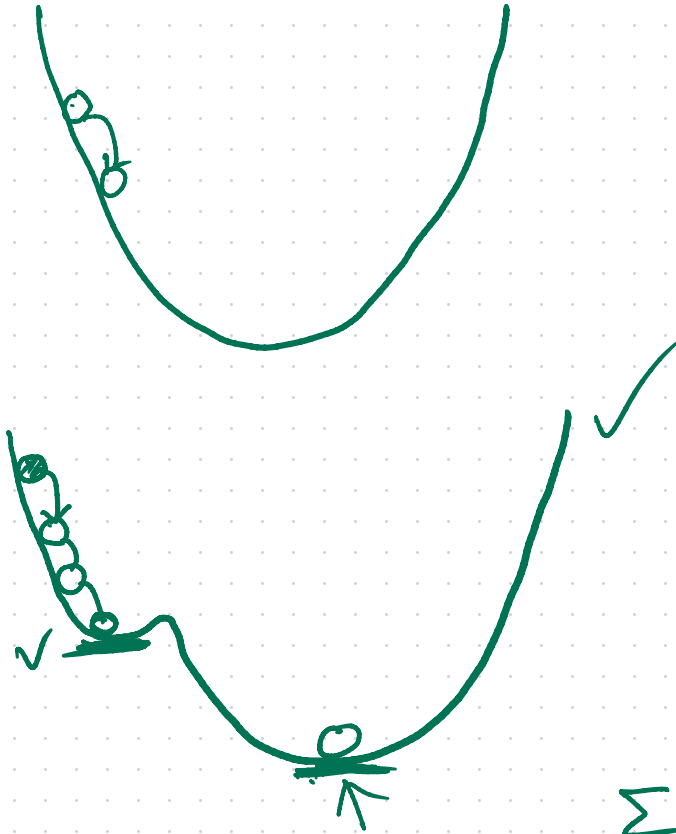
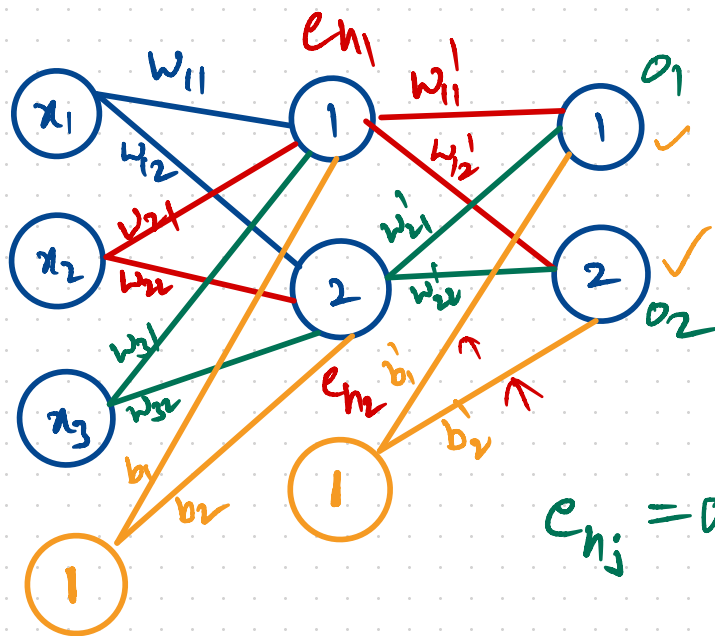


Day 8: 30 June 2023



$$\sum (E_k - O_k)^2$$

SSE



$$e_1 = t_1 - o_1$$

$$e_2 = t_2 - o_2$$

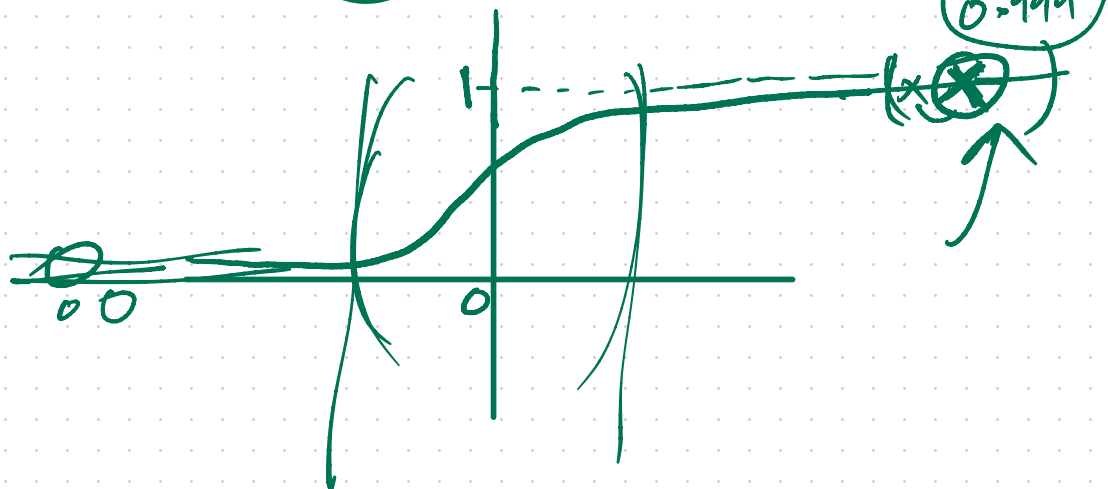
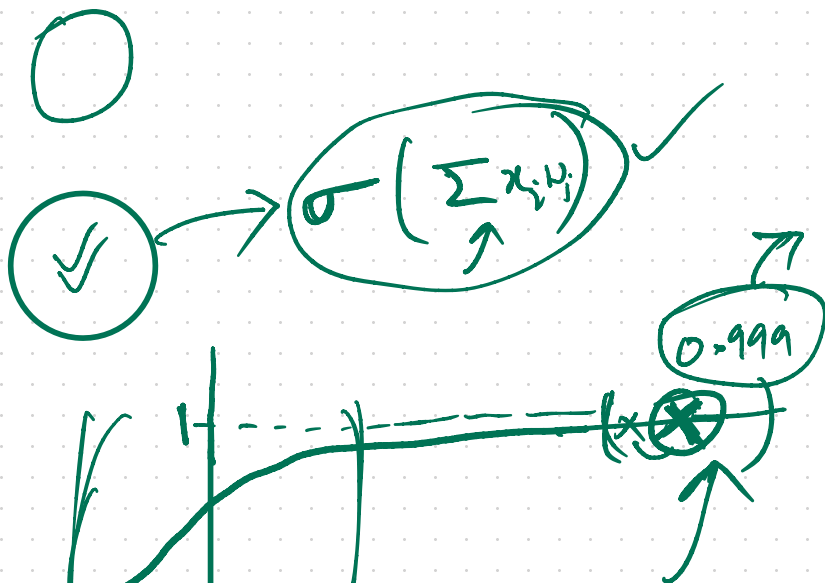
$$e_{nj} = \sigma \left(\sum_{i=1}^3 w_{ij} \cdot x_i + b_j \right) = \frac{1}{1 + e^{-\left(\sum_{i=1}^3 w_{ij} \cdot x_i + b_j \right)}}$$

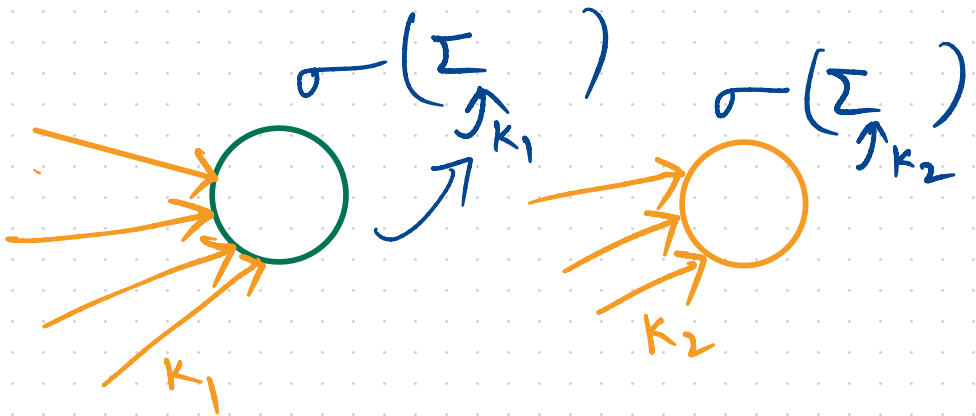
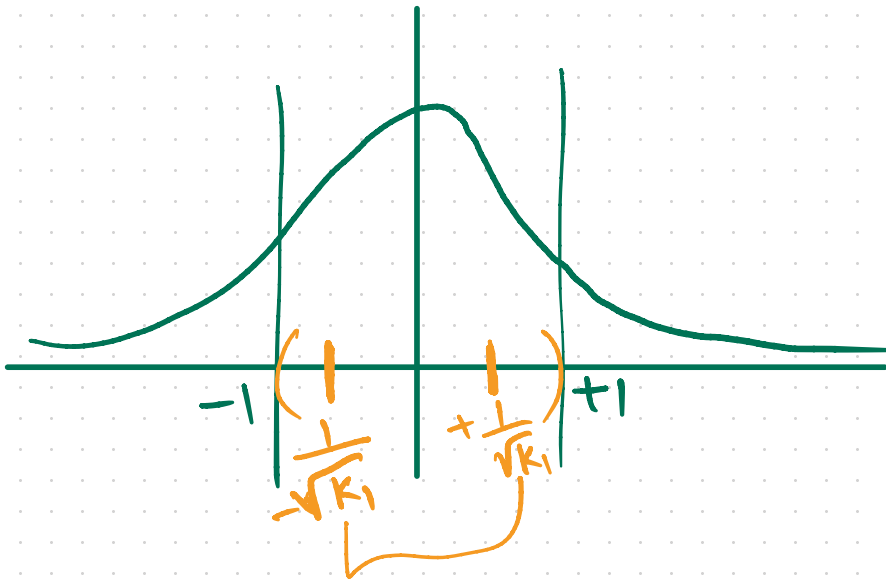
$$o_1 = \sigma \left(\sum_{j=1}^2 w'_{j1} \cdot e_{nj} + b'_1 \right) = \frac{1}{1 + e^{-\left(\sum_{j=1}^2 w'_{j1} \cdot e_{nj} + b'_1 \right)}}$$

$$o_1 = \frac{1}{1 + e^{-\left(\sum_{j=1}^2 w'_{j1} \left(\frac{1}{1 + e^{-\left(\sum_{i=1}^3 w_{ij} x_i + b_i \right)}} \right) + b'_1 \right)}}$$

- Theory
- Modeling ✓
- programming ↓

$$\frac{1}{1 + e^{-x}}$$





$$\sqrt{\Sigma e^2}$$