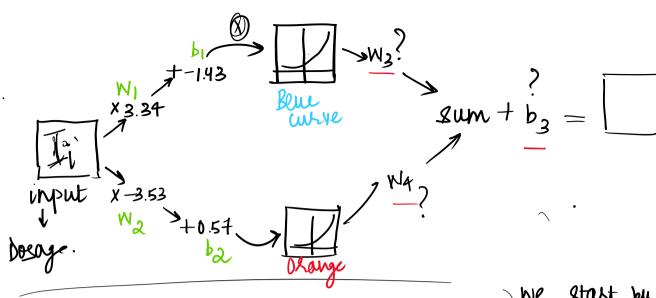


₩ OPTIMIZE 3 PARAMETERS SIMULTANEOUSLY



\* Standard Normal Distribution



We start by assuming 
$$b_3 = 0$$
 $W_3 = 0.36$ 
 $W_4 = 0.63$ 

1. We sur Dosage from [0 to 1]

2. Get corresponding y-axis coordinates by using obtained x values in  $f(x) = log(1+e^x) = y$ -axis coordinates.

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fetivation fin

3. Find out how well the green curve gits on the data.

$$= (0 - 0.72)^{2} + (1 - 0.46)^{2} + (0.-0.71)^{2}$$

OHOW to optimize (how to find derivate of SSR)

$$GSR = \sum_{i=1}^{n=3} (Deserved_i - Pred_i)^2$$

$$X_{1:i} = I_i \times 3.34 + - 1.43$$

$$x_{1,1} = 0 \times 3.34 -$$

$$\frac{1}{1}i = \frac{1}{5}(x_{1}i) = \log(1+e^{x})$$

$$\frac{1}{1}i = \frac{1}{5}(x_{1}i) = \frac{1}{5}(x_{1}i) + \frac{1}{5}(x_{1}i) + \frac{1}{5}(x_{1}i)$$

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$$\frac{dP92d}{dW_4} = f_{2,i}$$

$$\frac{dSSR}{dW_3} = \frac{2}{N=1} \cdot 2 \cdot (b_1 - p_1) \times y_{1,i}$$

$$= -2 \times (0 - p_2 d_1) \times y_{1,i} - 2 \times (-p_2 d_2) \times y_{2,2}$$

$$= 2 \cdot 58 \cdot 4 \cdot 4 \cdot (0 - p_2 d_3) \times y_{1,2}$$

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$$= 2 \cdot 58 \cdot (0$$

\* We repeat this process until the predictions no longer improve very much.

- Max no of step size.