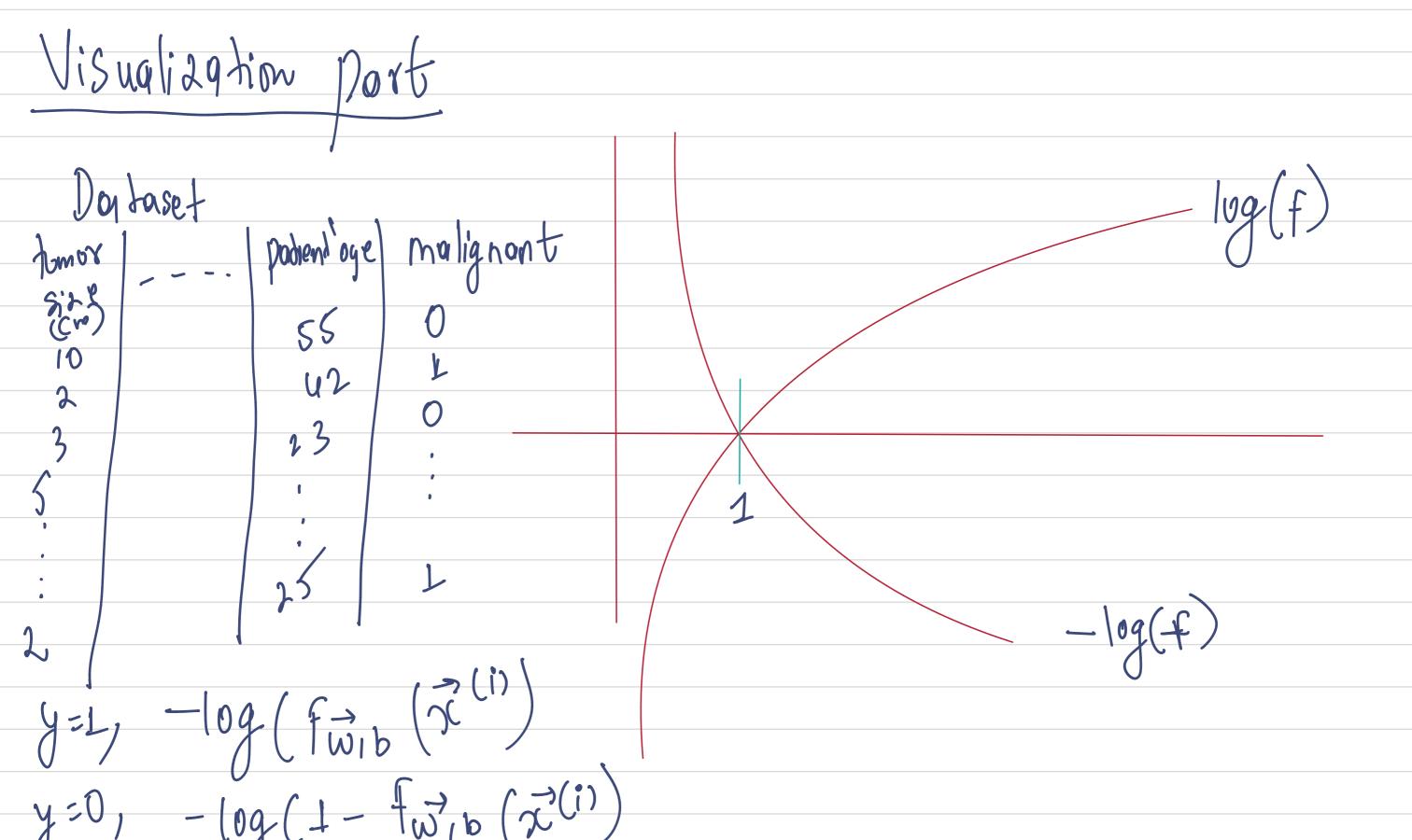
14-12-13-12024.

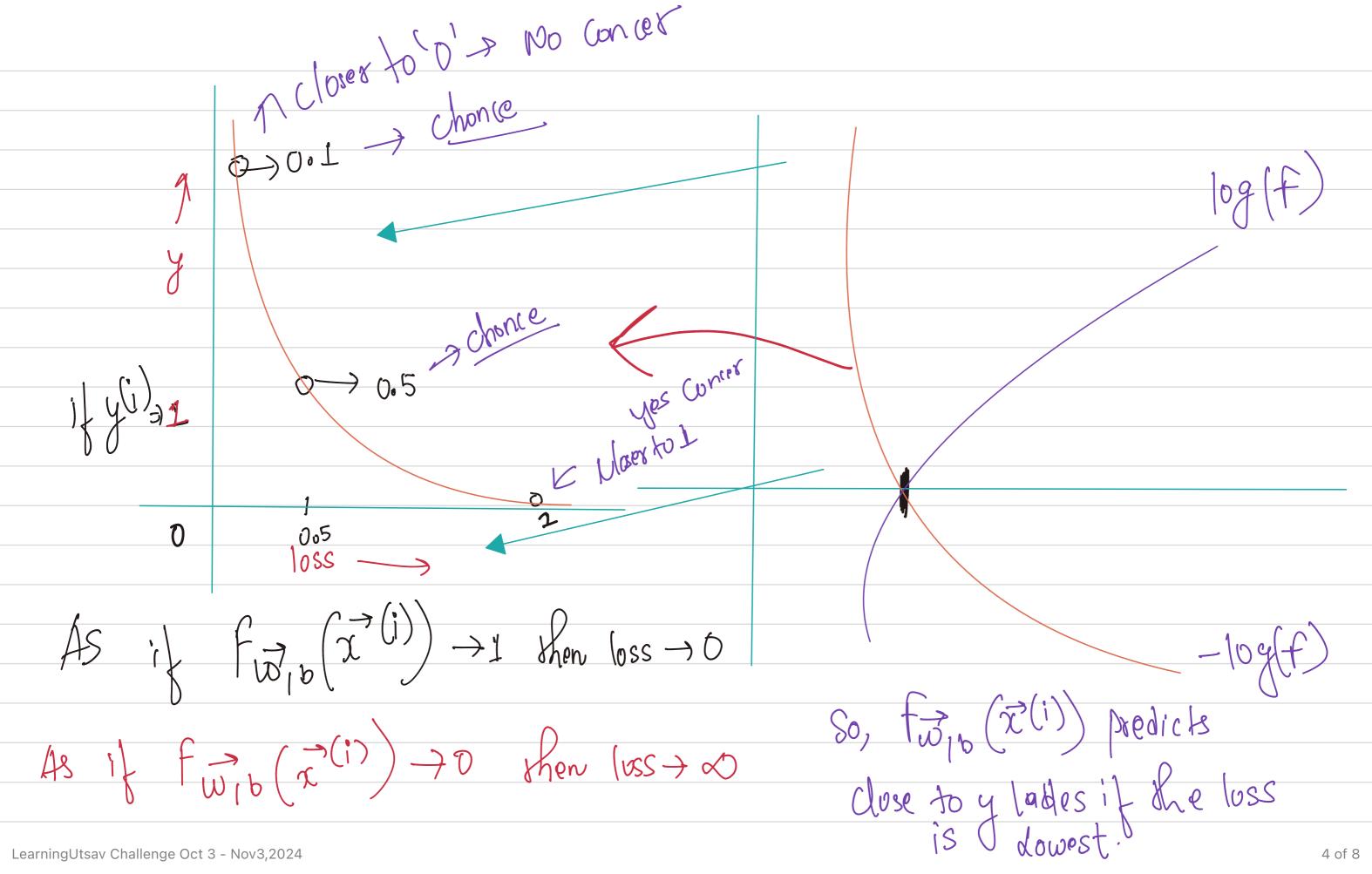
a= Wxx + w= weight Where = input

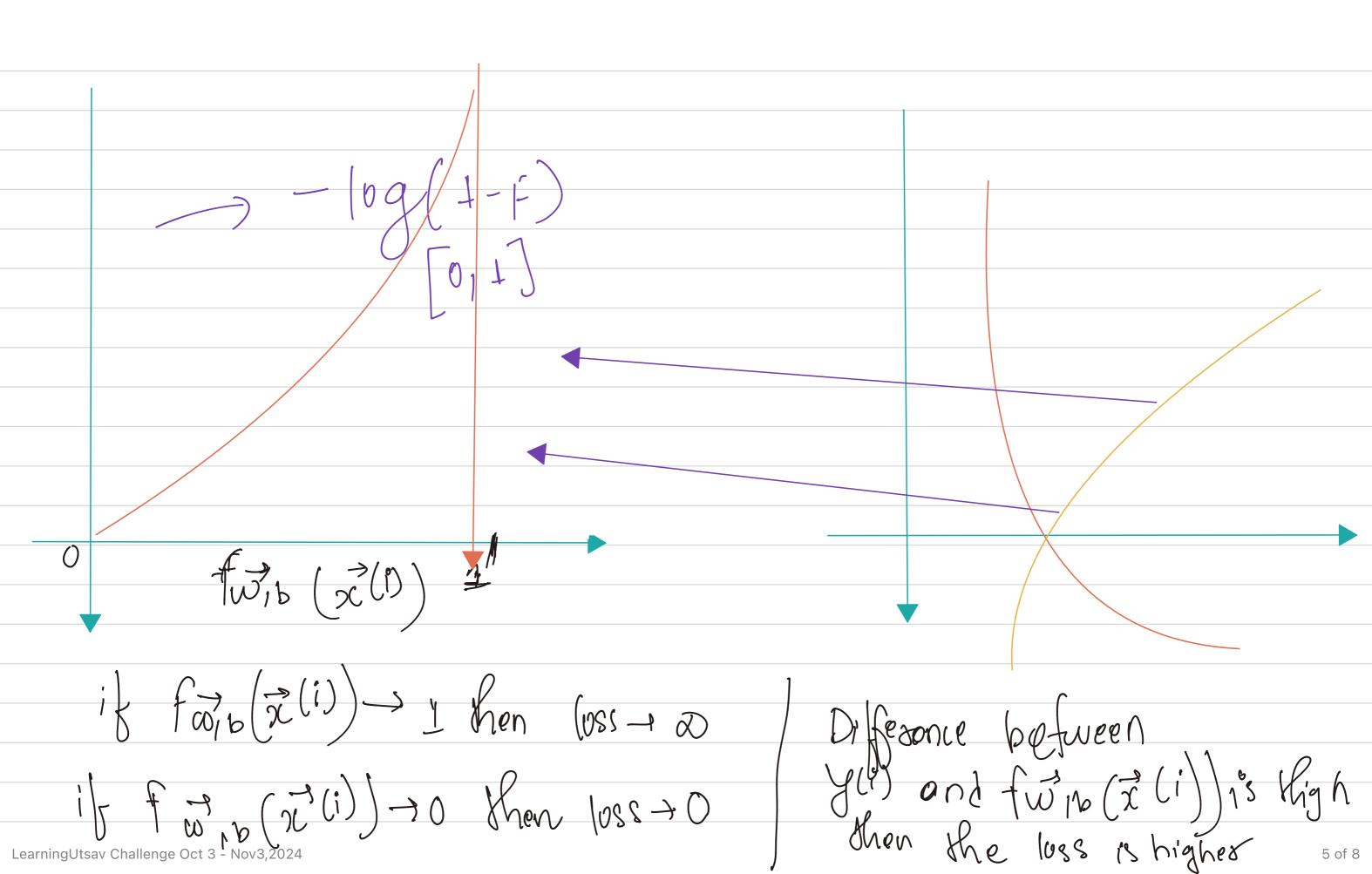
Byt dogistic Regression gives binory
Classification so for that we use Signoid Junction

$$6(2) = 1$$
 $1 + e^{-2}$
 $1 + e^{-1}$
 $1 + e^{-1}$
 $1 + e^{-1}$

So, doss function for Logistic Regression is not Squared Error but -log approach so that output [0,1]So, $(\vec{x}^{(i)})_{1}y^{(i)} = \int -\log(\vec{t}_{\vec{w},b}(\vec{x}^{(i)}))_{1} if y^{(i)} = 0$ $-\log(1-\vec{t}_{\vec{w},b}(\vec{x}^{(i)}))_{1} if y^{(i)} = 0$







So the mathematically we can write, lost function as:-

i.
$$J(\vec{w}_1|\vec{v}) \Rightarrow \frac{1}{m} \sum_{i=1}^{m} \lambda \left(f_{\vec{w}_1b}(\vec{x}_i^{(i)}), y_i^{(i)}\right)$$

Loss

 $f(\vec{w}_1) = 1$
 $f(\vec{w}_1) = 1$
 $f(\vec{w}_1) = 1$
 $f(\vec{w}_1) = 1$
 $f(\vec{w}_1) = 1$

$$\frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{$$

2088 - Jungtier ast Function $\frac{\text{doss}}{\text{d}(f \vec{\omega}) b(\vec{x}^{(i)})} \rightarrow -y^{(i)} \log \left(\frac{\vec{x}^{(i)}}{\vec{x}^{(i)}} \right) - 1 \left(1 - y^{(i)} \right) \left(\frac{\vec{x}^{(i)}}{\vec{x}^{(i)}} \right)$ $\frac{\cos t}{\cos t} = \frac{m}{1 + L} \left[\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right] + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right] + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) + \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) + \frac{1}{2} \left(\frac{1}{2}$

 $\frac{1}{m} = \frac{1}{2} \left[\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) + \left(\frac{1}{2} - \frac{1}{2} \right) \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right]$

Datometere of hogistic Regression con be desired for Challenge Oct 3 - Nov3,2024

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