TE = 1/8

performance of model =

$$P = \frac{1}{2} \times \log\left[\frac{1-TE}{TE}\right]$$

$$= \frac{1}{2} \times \log\left[\frac{1-\frac{1}{8}}{\frac{1}{8}}\right] \left[\frac{\frac{7}{8}}{\frac{1}{8}}\right]$$

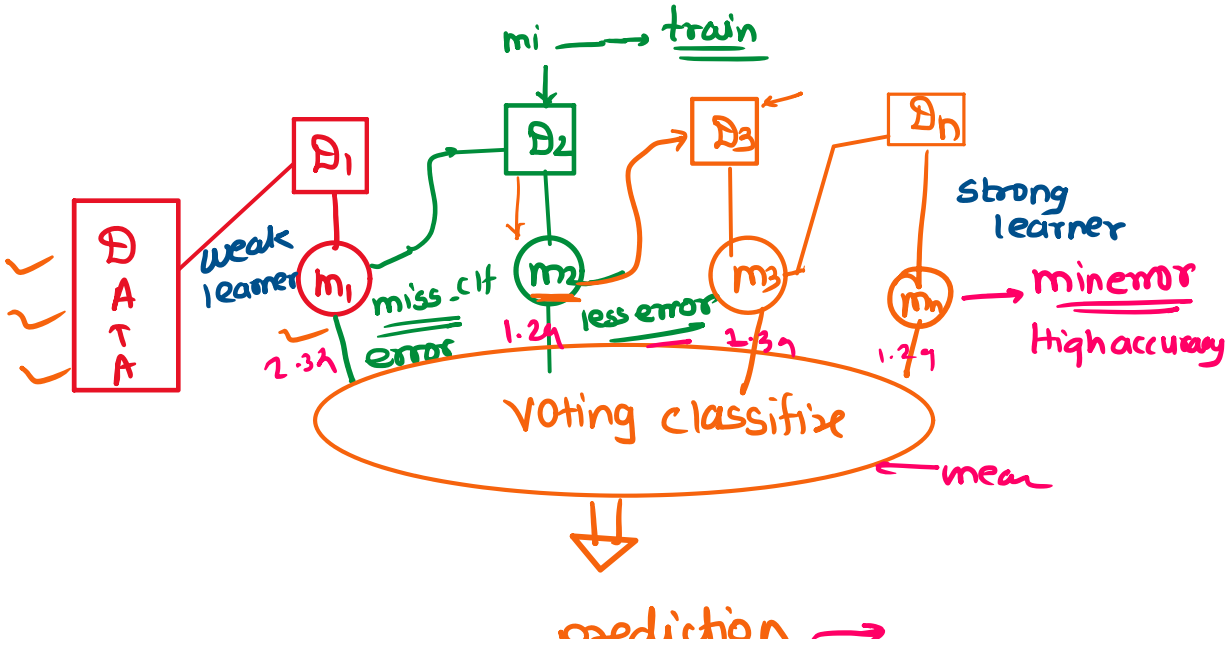
$$= \frac{1}{2} \times \log[7]$$

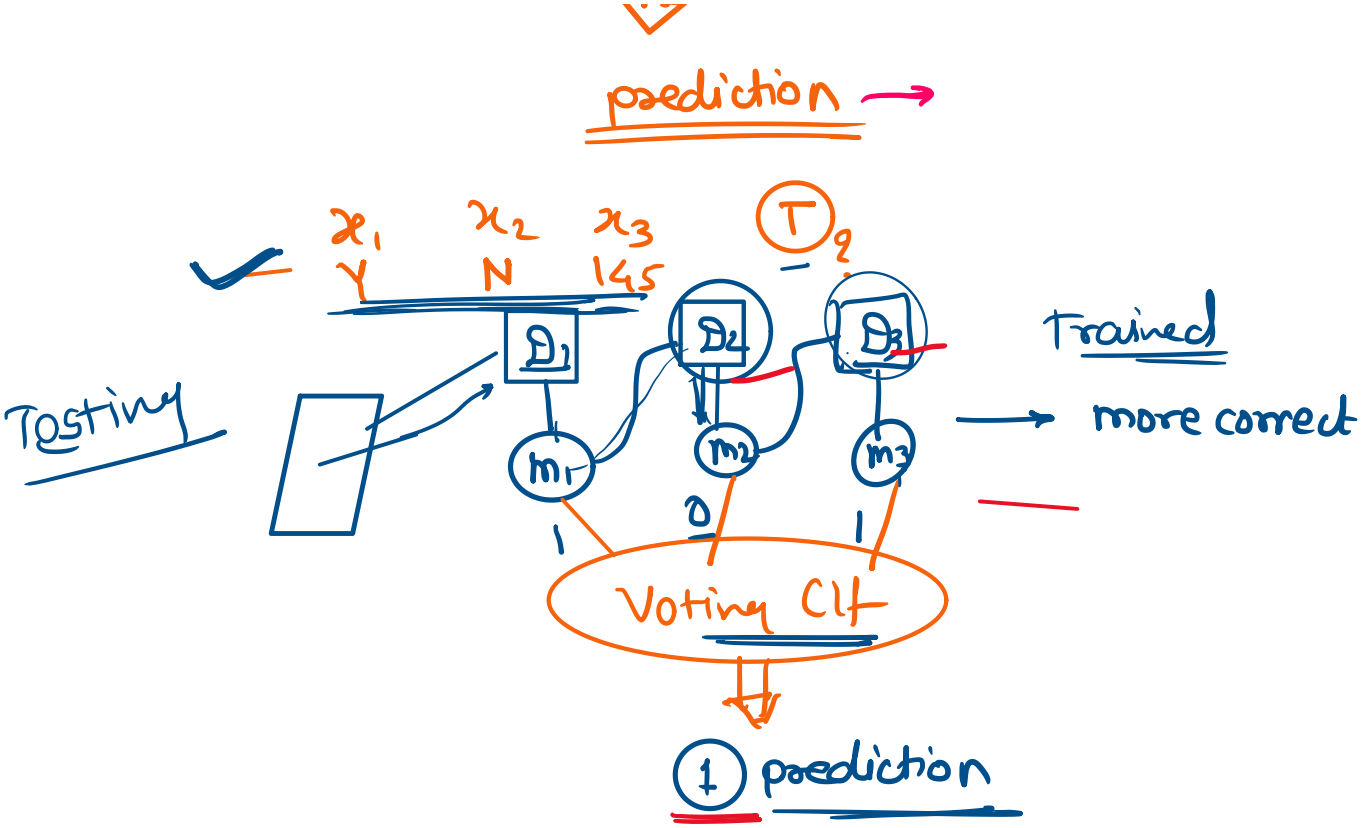
$$= 0.9729$$

New sample weight = $sw \times e^{\pm performance}$

NSW_correct = $sw \times e^{-performance}$

NSW_incorrect = $sw \times e^{+performance}$




prediction
x_1 x_2 x_3
Y N 145
T_q
D_1
D_4
D_3
Trained
Testing
more correct
m_1
m_2
m_3
1
0
1
Voting Clf
1 prediction