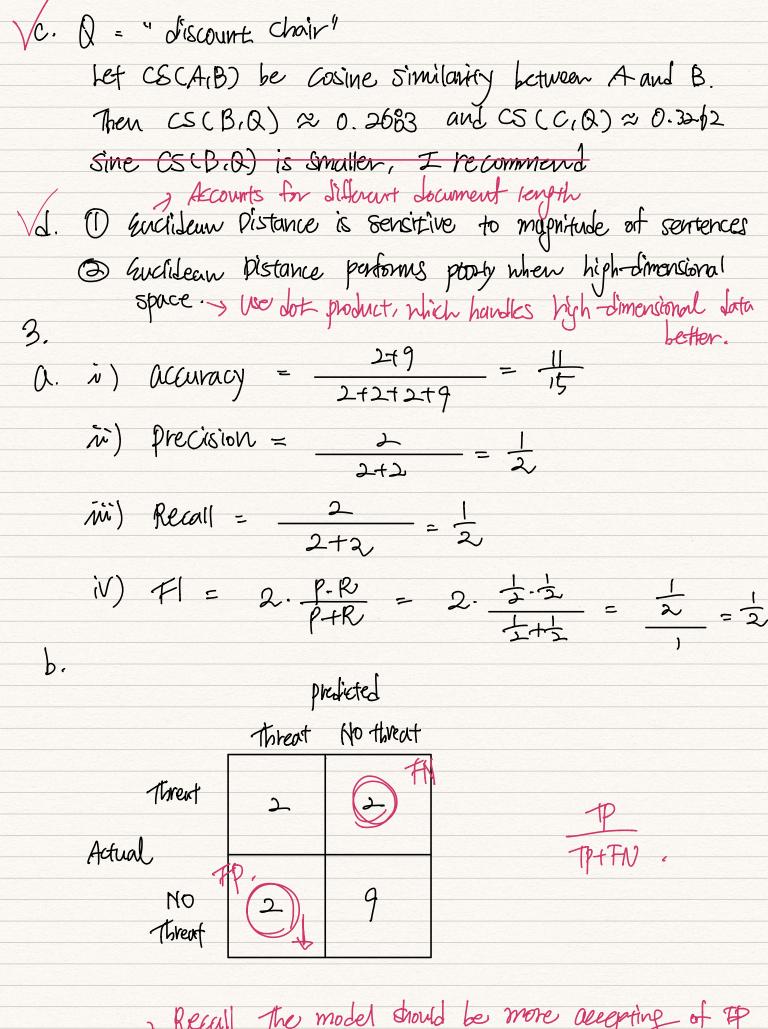
PART	A

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Let $ED(A_1B)$ be Euclidean distance between A and B. Then $ED(B_1Q) = 2$ and $ED(C_1Q) \approx 2.236$. Since $ED(B_1Q)$ is Smaller, I recommend product B.



Recall the model should be more accepting of IP since cost of FN is extlemely high.

C. Accuracy. Majority of classes are either

The threat or Three No Threat. Accuracy confuses
how many cases are classified correctly.

d. Dit or 7/15. If it is a complete random grews, then the accuracy is Dit, and in our case part of It can be rounded down to 7.

PARIT A.

1/15. Can be achieved by predicting everything as No threat.

ni) Evidence.

m) Likelihood.

$$P(Y = TB | X) = \frac{P(X | Y = TB) \cdot P(X = TB)}{P(X)}$$

$$= \frac{\frac{1}{9} \cdot \frac{1}{2}}{\frac{1}{9}} = \frac{1}{2}$$

$$P(Y = NTB) | X) = \frac{P(X | Y = NTB) \cdot P(Y = NTB)}{P(X)}$$

$$= \frac{\frac{1}{9} \cdot \frac{1}{2}}{\frac{1}{9}} = \frac{1}{2}$$