

$$= (0.8) (0.5) (0.1) (0.4)$$
  
= 0.016.

$$= \frac{(0.016) \cdot (0.2)}{(0.016) \cdot (0.2) + (0.024) \cdot (0.8)} = 0.1429$$

- 2. a) Feature selection: it is the process of throwing away the less irre relavent features to decrease time and space complexity. I close chasing up which feature
  - b) No. I OBJ I would have liked but explored in that tooken would wreed y
  - c) No Free the Theorem: the conclusion of this theorem basically says that there a so isn't a best machine learning method for all tasks or; specifically , if all medils equally sitely , no me method is better then perdinguessing
    - d) It takes longer to apply K-nearst neighbor system be because it stores feature vectors & class labels only, during training; while in testing, it assigns the most frequent labels. Although it takes more time at application stage ( due to more among computation), it is not necessarily a bad thing, because it could adopt to changes without netraining. Tring only done ones; went prediction) to be seit,
    - e) Reprens
    - Depresented by perception: ii & iv

Represented by neural network: i, ii, iii, iv.