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Naive Bayes

Practice Quiz • 30 min • 10 total points

✓ **Congratulations! You passed!**

Grade received **100%** To pass 80% or higher

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1. Assume that there are 2 happy people and 2 unhappy people in a room. Concretely, persons A and B are happy and persons C and D are unhappy. If you were to randomly pick a person from the room, what is the probability that the person is happy.

1 / 1 point

☒ 1/2

☐ 1/4

☐ 3/4

☐ 0

✓ **Correct**

2. Assume that there are 2 happy people and 2 unhappy people in a room. Concretely, persons A and B are happy and persons C and D are unhappy. If a friend showed you the part of the room where the two happy people are

1 / 1 point



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2. Assume that there are 2 happy people and 2 unhappy people in a room. Concretely, persons A and B are happy and persons C and D are unhappy. If a friend showed you the part of the room where the two happy people are, what is the probability that you choose person B?

1 / 1 point

1/2

○ 1/4

○ 3/4

○ 1

✔ **Correct**

3. From the equations presented below, express the probability of a tweet being positive given that it contains the word happy in terms of the probability of a tweet containing the word happy given that it is positive

1 / 1 point

$$P(\text{Positive} \mid \text{"happy"}) = \frac{P(\text{Positive} \cap \text{"happy"})}{P(\text{"happy"})}$$

$$P(\text{"happy" Positive}) = \frac{P(\text{"happy"} \cap \text{Positive})}{P(\text{Positive})}$$

$$\odot P(\text{Positive} \mid \text{happy}) = P(\text{happy} \mid \text{Positive}) \times \frac{P(\text{Positive})}{P(\text{happy})}$$
$$\bigcirc P(\text{Positive} \mid \text{happy}) = P(\text{"happy"} \mid \text{Positive}) \times \frac{P(\text{happy})}{P(\text{Positive})}$$
$$\bigcirc P(\text{Positive} \cap \text{happy}) = P(\text{happy} \mid \text{Positive}) \times \frac{P(\text{Positive})}{P(\text{happy})}$$
$$\bigcirc P(\text{Positive} \cap \text{happy}) = P(\text{"happy"} \mid \text{Positive}) \times \frac{P(\text{happy})}{P(\text{Positive})}$$

✔ Correct

1 / 1 point

$$\log\left(\frac{P(w_i|pos)}{P(w_i|neg)}\right).$$

Positive numbers imply that the word is positive.

Correct

Positive numbers imply that the word is negative.

Negative numbers imply that the word is negative.

Correct

Negative numbers imply that the word is positive.

1 / 1 point

-1 and 1

 $-\infty$ and ∞ 0 and ∞

0 and 1

Correct
Yes!

1 / 1 point

- 15°C Haze Search 1.13 Kb/s 133.4 Kb/s ENG US 09:01 PM 08-02-2023

1 / 1 point

- ✔ **Correct**
This is correct.

1 / 1 point

- ✔ **Correct**
This is correct.