Quiz 3

Due Sep 21 at 10am **Points** 130 **Questions** 8

Available Sep 16 at 1pm - Sep 21 at 11:59pm 5 days Time Limit None

Instructions

For e use 2.7182818

for pi use 3.14159

This quiz was locked Sep 21 at 11:59pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	244 minutes	110 out of 130

(!) Correct answers are hidden.

Score for this quiz: 110 out of 130

Submitted Sep 19 at 4:12pm This attempt took 244 minutes.

Question 1

25 / 25 pts

Given the data set in the file weather.numeric.csv for Naive Bayes, by hand, calculate the value for f(73) for temperature for the following test example for the class yes.

Outlook TemperatureHumidity Windy sunny 73.0000 68.0000 FALSE

0.0558

Questio	n 2 15 / 15 pts
	weather.numeric20.csv file what class do you get for the pelow using Naive Bayes without using Weka and with no correction?
Outlook sunny	TemperatureHumidity Windy 73.0000 68.0000 FALSE
O No	
yes	

Incorrect

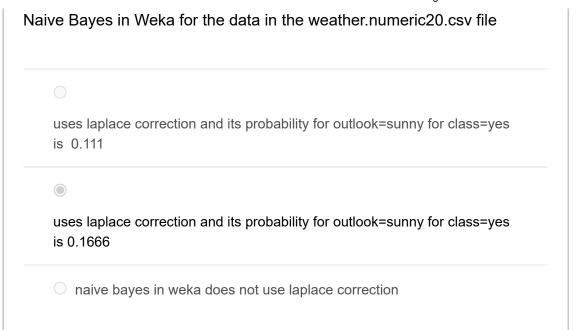
Question 3 0 / 10 pts

Given the weather.numeric20.csv file for the example below without using Weka and with no Laplace correction using Naive Bayes what is the pseudo-probability for the class yes for the test example below?

Outlook TemperatureHumidity Windy sunny 73.0000 68.0000 FALSE

0.0002

Question 4 25 / 25 pts



Incorrect

Question 5 0 / 10 pts

What is the information value for a data set that has 3 classes with 4 in Class1, 8 in Class2, and 2 in Class3?

1.7136

Question 6 25 / 25 pts

Use the file xor.arff for the exclusive-or problem. Try it in Weka with J48 and test on training. It generates a correct tree

- never, but I could build a correct decision tree
- never and I could not build a correct decision tree with any algorithm

○ always

What is a possible reason for what you observed with J48 and exclusive or? it worked after changing the m parameter it works fine, as expected must have a bug with default settings there is no information gain when you test any attribute so it must have a default quit in that case

Question 8 10 / 10 pts

Now using Weka for Naive Bayes with default parameters what do you get from weather.numeric20.csv (made into an arff file) and the test example for a "pseudo" probability for the class chosen for test example:

Outlook TemperatureHumidity Windy

sunny	73.0000	68.0000	FALSE		
0.667					

Quiz Score: 110 out of 130