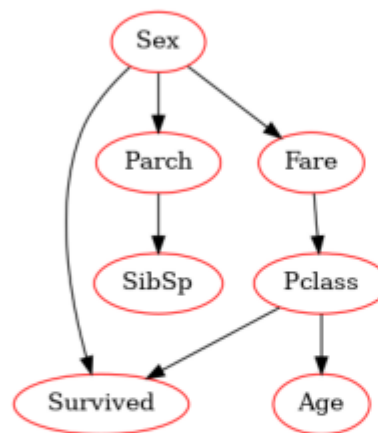


Question 1

Not yet answered Marked out of 1.00

What statement related to the following Bayesian network is **not true**



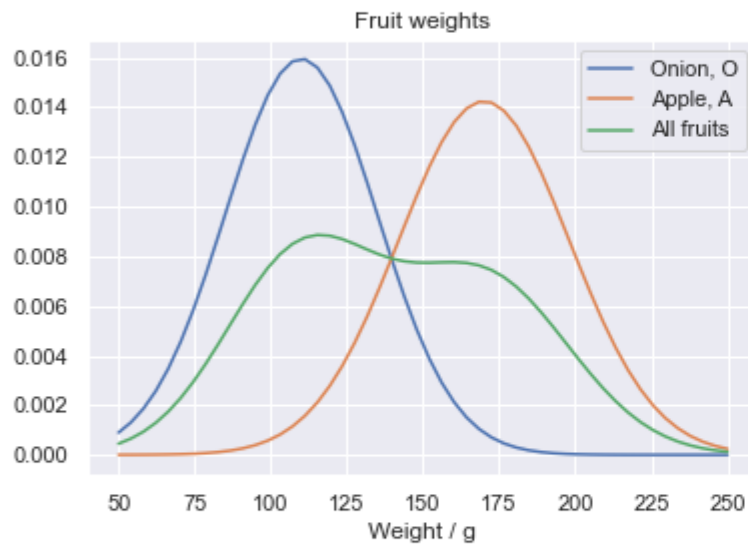
Select one:

- ☐ a. Survival depends also on the ticket price "Fare".
- ☐ b. Survivability can be calculated using only the passenger class "Pclass" and "Sex".
- ☐ c. Number of children "Parch" has nothing to do with survivability.
- ☐ d. Survival depends on the passenger class "Pclass"

Question 2

Not yet answered Marked out of 1.00

The distributions below show the weights of onions and apples used for separating the overlapping, the separation won't be extremely good. What could be done to improve



Select one:

- ☐ a. Using full Bayesian classifier instead of Naive Bayesian.
- ☐ b. By selecting better library with better implementation of Bayesian classifier.
- ☐ c. The colour of the items could be also measured and the colour distributions could be added to the classifier which would probably work better.

Question 3

Not yet answered Marked out of 1.00

Would a Full Bayesian classifier be better than Naive Bayesian classifier for separating



Select one:

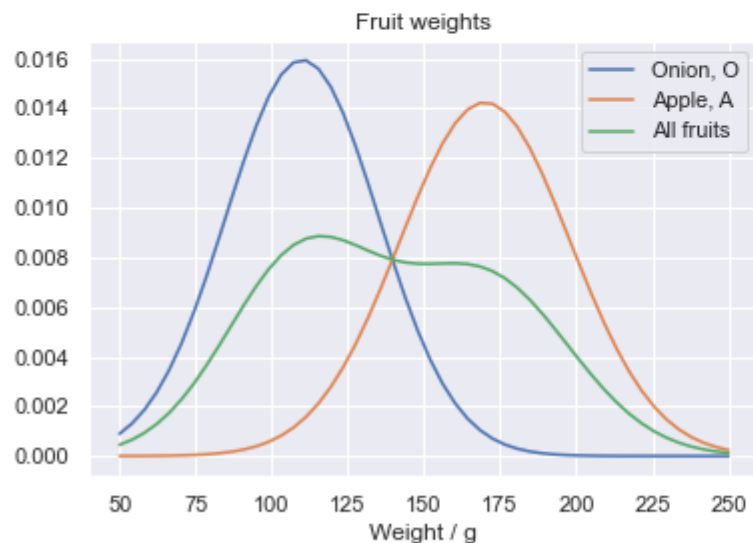
- ☐ a. Yes, because the variables x_1 and x_2 are dependent (distributions are not circular).
- ☐ b. No because the distributions are too much overlapping.
- ☐ c. No, because Full Bayesian classifier is so complex that it is almost useless.

Question 4

Not yet answered Marked out of 1.00

Hundred apples and hundred onions have been accidentally mixed in the grocery store. You want to separate the onions from apples by simply measuring their weights, since onions are usually lighter than apples. You are given the weight distribution of apples and onions. The separation of apples from onions can be done using Bayes rule to find out what is the probability that an item is an onion if it weighs 125 g?

You can solve this using the associated notebook.



Answer:

Question 5

Not yet answered Marked out of 1.00

Select most suitable term for a given explanation.

Computing the likelihood of certain variables based on probabilistic model

Finding a plausible model based on the data

Selecting the most probable category for an item based on the probabilistic model