Started on	Thursday, 3 October 2024, 1:02 PM
State	Finished
Completed on	Thursday, 3 October 2024, 1:17 PM
Time taken	15 mins 2 secs
Marks	12.00/20.00
Grade	6.00 out of 10.00 (60%)
Question 1	
Complete	
Mark 1.00 out of 1.00	
The K-fold method	is implemented in external validation.
THE R TOTA MELHOA	is implemented in external validation.
○ True	
False	
Question 2	
Complete	
Mark 0.00 out of 1.00	
In the current script	we only implement the k-NN classifier
in the current script	we only implement the K-MM classifier
True	
False	
Question 3	
Complete	
Mark 0.00 out of 1.00	
Is the dataset halan	ced? Are all the classes equally populated?
13 the dataset balan	ced. The air the classes equally populated.
True	
False	
4	
Question 4	
Complete	
Mark 1.00 out of 1.00	
The classification ra	te in external validation can be bigger than in internal validation because the training model considers more samples.
Sidosification re	2.000 and the second second second and the second s
True	
False	

Question 5
Complete
Mark 0.00 out of 1.00
The dimension of the pattern vectors for each patient is:
Answer: 10000
Question 6
Complete
Mark 1.00 out of 1.00
In the Nearest Centroid Classifier we need to optimize the number of neighbours to compute the centroid.
○ True
False
O Tube
Question 7
Complete
Mark 1.00 out of 1.00
For k-NN, we optimize the value of k in external validation.
○ True
False
Question 8
Complete
Mark 1.00 out of 1.00
In order to properly partition the dataset, the script samples not the data but the indexes.
● True
○ False
Question 9
Not answered
Marked out of 1.00
The variable mz_prost in only the x-axis for the mass spectra, but it not contains information.
○ True
○ False
Tuisc

Question 10
Complete Mark 1.00 out of 1.00
The lab does not do a dedicated data partition per class. True False
o ruisc
Question 11 Complete Mark 1.00 out of 1.00
We have three measurements per patient, that we average to reduce unwanted variability. True False
Question 12 Complete Mark 1.00 out of 1.00
The dataset uses Mass Spectrometry measurements
True False
40
Question 13 Complete
Mark 0.00 out of 1.00
The lab calculates the centroids only for two dimensions that are plotted.
True
○ False
Question 14
Not answered
Marked out of 1.00
In the Nearest Centroid Classifier we need to optimize the number of neighbours to compute the centroid.
○ True
○ False

Question 15
Complete
Mark 1.00 out of 1.00
In the current lab the provided script implements a binary classifier
○ True
False
Question 16
Complete
Mark 0.00 out of 1.00
The purpose of the logarithmic transformation is to make the data smaller.
True
○ False
Question 17
Complete
Mark 1.00 out of 1.00
We use the R package caret for implement the k-fold data partition.
True
○ False
Question 18
Complete
Mark 1.00 out of 1.00
The lab uses Hold-out for external validation
True
○ False
Question 19
Complete
Mark 1.00 out of 1.00
The most populated class is:
○ a. Bening hypertrophia
b. prostatic cancer
○ c. Control

Question 20		
Not answered		
Marked out of 1.00		
It is a good practice to calculate the confidence interval of the classification rate to take into account the uncertainty of the estimated value with finite data.		
○ True		
○ False		