Data Science Using R Final Test (Internship)
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Data Science Using R Final Test (Internship)
All questions are compulsory. No negative marking.
Functions are defined using the directive and are stored as R objects *  () functions() () function() () None of abobe () funct()
Which of the following is a categorical outcome? *  Accuracy  RSquared  RMSE  All of the Mentioned

How do you handle missing or corrupted data in a dataset? *					
All of the above.					
Replace missing values with mean/median/mode					
O Drop missing rows or columns					
Assign a unique category to missing values					
What is the minimum no. of variables/ features required to perform clustering? *					
1					
O 0					
O 2					
○ 3					
MapReduce Processing is*					
Linear					
Serieal					
Batch					
Shared					
Data frames can be converted to a matrix by calling data*					
mat()					
matrix()					
matr()					
All of above					

<ul> <li>Yes</li> <li>NO</li> <li>What is the role of exploratory graphs in data analysis? *</li> <li>They are used in place of formal modeling</li> <li>They are made for formal presentations</li> <li>summarize main characteristic of data</li> <li>Axes, legends, and other details are clean and exactly detailed</li> <li>Movie Recommendation systems are an example of: *</li> <li>Clusturing</li> <li>Classification</li> <li>Both 1 and 2</li> <li>None of above</li> <li>can best be described as a programming model used to develop</li> <li>Hadoop-based applications that can process massive amounts of data.</li> <li>MapReduce</li> <li>All of the mentioned</li> </ul>	For two runs of K-Mean clustering is it expected to get same clustering results? *
What is the role of exploratory graphs in data analysis? *  They are used in place of formal modeling They are made for formal presentations summarize main characteristic of data Axes, legends, and other details are clean and exactly detailed  Movie Recommendation systems are an example of: *  Clusturing Classification Both 1 and 2 None of above  can best be described as a programming model used to develop Hadoop-based applications that can process massive amounts of data.  MapReduce All of the mentioned	○ Yes
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All of the mentioned	
	MapReduce
	All of the mentioned
U Uozie	Oozie
Mahout	Mahout Mahout

What type of analysis could be most effective for predicting temperature on the following type of data.

Date	Temperature	precipitation	temperature/precipitation
12/12/12	7	0.2	35
13/12/12	9	0.123	73.1707317073
14/12/12	9.2	0.34	27.0588235294
15/12/12	10	0.453	22.0750551876
16/12/12	12	0.33	36.3636363636
17/12/12	11	0.8	13.75

- Clustering
- Time Series Analysis
- None of above

All of the following accurately describe Hadoop, EXCEPT: \*

- Distributed computing approach
- Real-time
- Open source
- Java-based

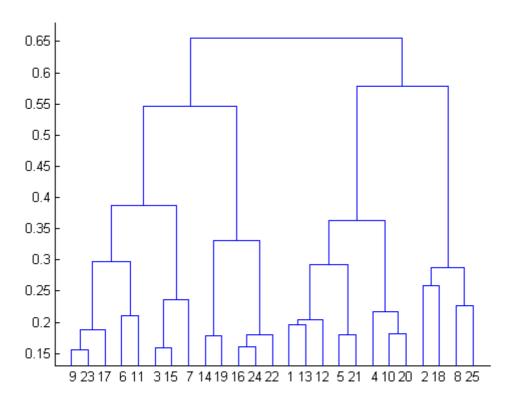
Suppose B is a categorical variable and we wish to draw a boxplot for every level of the categorical level. Which of the below commands will help us achieve that?

В
Right
Wrong
Wrong
Right
Right
Wrong
Wrong
Right

	None	of the	above
--	------	--------	-------

- boxplot(A,B,data=data)
- boxplot(A|B,data=data)
- boxplot(A~B,data=data)

After performing k-means Clustering analysis on a dataset, you observed the following dendrogram. Which of the following conclusion can be drawn from the dendrogram?



- The above dendrogram interpretation is not possible for K-Means clustering analysis
- There were 28 data points in clustering analysis
- The proximity function used is Average-link clustering
- The best no. of clusters for the analyzed data points is 4

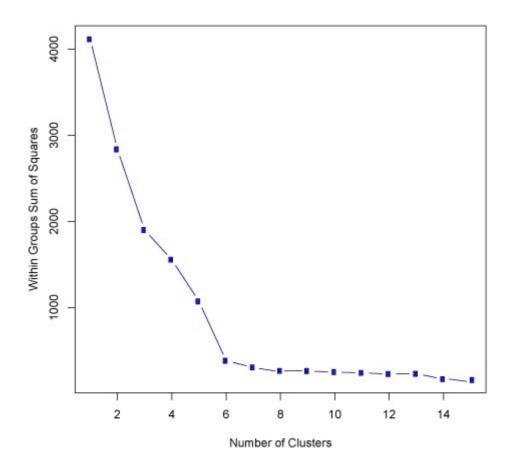
Below are the 8 actual values of target variable in the train file. [0,0,0,1,1,1,1,1] \* What is the entropy of the target variable?

- $(5/8 \log(5/8) + 3/8 \log(3/8))$
- 3/8 log(5/8) + 5/8 log(3/8)
- 5/8 log(3/8) 3/8 log(5/8)

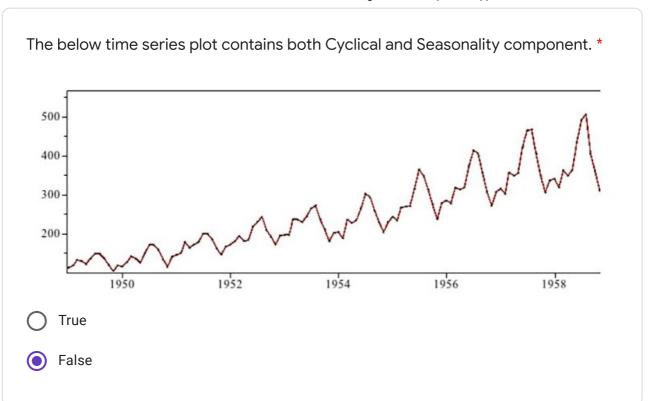
What is the minimum no. of variables/ features required to perform clustering? *
O 2
1
○ 3
O 0
Which of the following method is used for finding optimal number of clusters in * the K-Mean algorithm?
Manhattan method
C Euclidean method
None of these
Elbow method
In order to apply a combiner, what is one property that has to be satisfied by the values emitted from the mapper?
Only if the values satisfy associative and commutative property it can be done.
Output of the mapper and output of the combiner has to be same key value pair and they can be heterogeneous
Combiner can be applied always to any data
Output of the mapper and output of the combiner has to be same key value pair.

Which of the following is finally produced by Hierarchical Clustering? *			
final estimate of cluster centroids			
assignment of each point to clusters			
tree showing how close things are to each other			
all of the mentioned			
Data used to build a data mining model. *			
Train Data			
Test data			
Validation Data			
Hidden Data			
Which of the following draws plot on current graphics device? *			
print.ggplot			
ggmissplot			
O printplot			
ggfluctuation			

What should be the best choice for number of clusters based on the following results:



- 6
- 14
- More than 14
- O 5



Which of the following step is performed by data scientist after acquiring the data?

Data Integration

Data Cleansing

Data Replication

All of the Mentioned

Select the correct exploratory graph characteristic \*

Quick representation of the data

All of the mentioned

Color is used for personal information

A large number of exploratory graphs are made

Imagine, you are solving a classification problem with the highly imbalanced * class. The majority class is observed 99% of the times in the training data. Your model has 99% accuracy after taking the predictions on test data. Which of the following is true in such a case?
Precision and recall metrics are good for imbalanced class problems.
Accuracy metric is a good idea for imbalanced class problems.
Precision and recall metrics aren't good for imbalanced class problems.
Accuracy metric is not a good idea for imbalanced class problems.
Which of the following involves predicting a categorical response?*
Summarization
Classification
Regression
O Clustering
Hadoop is a framework that works with a variety of related tools. Common * tools include:
MapReduce, Hummer and Iguana
MapReduce, Heron and Trumpet
MapReduce, Hive and HBase
MapReduce, MySQL and Google Apps

What could be the possible reason(s) for producing two different dendrograms * using the agglomerative clustering algorithm for the same dataset?
ono. of variables used
Proximity function used
ono. of data points used
All of the above
According to analysts, for what can traditional IT systems provide a foundation * when they're integrated with big data technologies like Hadoop?
Collecting and storing unstructured data
Big data management and data mining
Data warehousing and business intelligence
Data warehousing and business intelligence     Management of Hadoop clusters
Missing values in this csv file has been represented by an exclamation mark ("!") * and a question mark ("?"). Which of the codes below will read the above csv file
Management of Hadoop clusters  Missing values in this csv file has been represented by an exclamation mark ("!") * and a question mark ("?"). Which of the codes below will read the above csv file correctly into R?
Missing values in this csv file has been represented by an exclamation mark ("!") * and a question mark ("?"). Which of the codes below will read the above csv file correctly into R?  Ocsv('Dataframe.csv',header=FALSE, sep=',',na.strings=c('?'))
Missing values in this csv file has been represented by an exclamation mark ("!") * and a question mark ("?"). Which of the codes below will read the above csv file correctly into R?  Csv('Dataframe.csv',header=FALSE, sep=',',na.strings=c('?'))  csv('Dataframe.csv')

five-number summary does	not produce which of the following information *		
Mean			
Median			
All of the mentioned			
Mode			
	data related to HDFS including the information * ed on HDFS, and Replication, etc. are stored and		
Slave node			
O Data Node			
Name Node			
Secondary Name Node	Secondary Name Node		
Match the items and choose	e a correct option *		
Match the items from Group I wit Group I	Group II		
A. Apache Pig 1. B. Apache HBase 2. C. Apache Drill 3.	Able to fire a single query and collects data from different storage Use for Extract, Transfer and Load data Non-relational distributed database Machine-learning and data mining library		
A-4, B-2, C-3, D-1			
A-2, B-1, C-4, D-3			
A-2, B-3, C-1, D-4			
A-4, B-3, C-2, D-1			

Function used for linear regression in R is *
regression.linear(formula, data)
Ir(formula, data)
Irm(formula, data)
Point out the wrong statement. *
k-means clustering aims to partition n observations into k clusters
k-means clustering is a method of vector quantization
k-nearest neighbor is same as k-means
onone of the mentioned
can be used for batch processing of data and aggregation * operations.
O Hive
None of the above
Oozie
MapReduce

Which of the following syntax is used to install forecast package?*
install.packages("cast")
All of the mentioned
install.pack("forecast")
install.packages("forecast")
Which of the following is characteristic of best machine learning method?*
○ Fast
Salable
Accurate
All of the Mentioned
How many coefficients do you need to estimate in a simple linear regression * model (One independent variable)?
O 1
2
O 3
O 4

Which is not the V of Big Data *
Velocity
Versatile
Volume
○ Veriety
For which of the following hyperparameters, higher value is better for the decision tree algorithm?
Number of samples used for split
Cant say.
Samples for leaf
O Depth of tree
A dataset has been read in R and stored in a variable "dataframe". Missing values have been read as NA. Which of the following codes will not give the number of missing values in each column?
A 10 Sam
B NA Peter C 30 Harry
D 40 NA
E 50 Mark
table( <u>is.na</u> (dataframe))
colSums( <u>is.na</u> (dataframe))
apply( <u>is.na</u> (dataframe),2,sum)
Csapply(dataframe,function(x) sum( <u>is.na(x)</u> )

What is ggplot2 an implementation of ? *
the base plotting system in
3D visualization system
the Grammar of Graphics developed by Leland Wilkinson
the S language originally developed by Bell Labs
Which of the following is/are one of the important step(s) to pre-process the text in NLP based projects?1. Stemming 2. Stop word remove 3. object Standardization
1 and 2
① 1 and 3
<ul><li>1,2 and 3</li></ul>
2 and 3
In practice, Line of best fit or regression line is found when*
$\bigcirc$ Sum of the square of residuals ( $\sum (Y-h(X))2$ ) is minimum
Sum of residuals $(\sum (Y - h(X)))$ is minimum
$\bigcirc$ Sum of the square of residuals ( $\sum$ (Y-h(X))2) is maximum
$igcup $ Sum of the absolute value of residuals ( $\sum  Y-h(X) $ ) is maximum

grammar makes a clear distinction between your data and what gets displayed on the screen or page.	*
O d3.js	
ggplot2	
ggplot1	
ggplot3	

What would be the output of following code? x - c("a", "b", "c", "c", "d", "a") x[c(1, 3, 4)]

- (a" "c" "c"
- All of the mentioned
- (a" "c" "b"
- (a" "b" "c"

Which will be the output of following code ? x - 3 switch(6, 2+2, mean(1:10), \* rnorm(5))

- 0 2
- 0 1
- O 3
- null

Which of the following is/are valid iterative strategy for treating missing values * before clustering analysis?	
Imputation with Expectation Maximization algorithm	
Nearest Neighbor assignment	
All of the above	
Imputation with mean	
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