

Machine Learning Test - DataScience Specialization Program - 9th June 2023

Total points 17/25

Email *

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✓ Choose whether the following statement is true or false: Artificial intelligence is the process that allows a computer to learn and make decisions like humans.

*1/1

☒ True

☐ False



✓ Identify the method which is used for trainControl resampling. * 1/1

- ☐ svm
- ☒ repeatedcv
- ☐ Bag32
- ☐ None of the above



✓ Which of the following is a disadvantage of decision trees? * 1/1

- ☐ Factor analysis
- ☐ Decision trees are robust to outliers
- ☒ Decision trees are prone to be overfit
- ☐ None of the above



✓ What is unsupervised learning? * 1/1

- ☐ No. of groups may be known
- ☐ Features of group explicitly stated
- ☒ Neither feature nor no. of group is known
- ☐ None of the above



✓ When performing regression or classification, which of the following is the correct way to preprocess the data? *1/1

- ☒ Normalize the data -> PCA -> training ✓
- ☐ PCA -> normalize PCA output -> training
- ☐ Normalize the data -> PCA -> normalize PCA output -> training
- ☐ None of the above

✗ Decision tree cannot be used for clustering * 0/1

- ☒ True ✗
- ☐ False

Correct answer

- ☒ False

✓ Machine learning is a subset of which of the following. * 1/1

- ☒ Artificial Intelligence ✓
- ☐ Deep Learning
- ☐ Data Learning
- ☐ None of the above



✓ Choose a disadvantage of decision trees among the following. * 1/1

- ☐ Decision trees are robust to outliers
- ☐ Factor analysis
- ☒ Decision tree are prone to overfit
- ☐ All of the above



✓ Which of the following is not a supervised learning * 1/1

- ☒ PCA
- ☐ Naive Bayesian
- ☐ Linear Regression
- ☐ Decision Tree



✗ In PCA the number of input dimensions is equal to principal components. * 0/1

- ☐ True
- ☒ False



Correct answer

- ☒ True



✓ Different learning methods does not include? *

1/1

- ☒ Introduction
- ☐ Analogy
- ☐ Deduction
- ☐ Memorization



✗ Which of the following are ML methods? *

0/1

- ☐ based on human supervision
- ☒ supervised Learning
- ☐ semi-reinforcement Learning
- ☐ All of the above



Correct answer

- ☒ based on human supervision

✓ Among the following option identify the one which is used to create the most common graph types. *1/1

- ☐ plot
- ☐ quickplot
- ☒ qplot
- ☐ All of the above



✓ ML is a field of AI consisting of learning algorithms that? *

1/1

- ☐ Improve their performance
- ☐ At executing some task
- ☐ Over time with experience
- ☒ All of the above



✗ In which of the following cases will K-means clustering fail to give good results? *0/1

1) Data points with outliers

2) Data points with different

densities

3) Data points with nonconvex shapes

- ☒ 1 and 2
- ☐ 2 and 3
- ☐ 1 and 3
- ☐ All of the above



Correct answer

- ☒ All of the above



✓ Which of the following statements about regularization is not correct? * 1/1

- ☐ Using too large a value of lambda can cause your hypothesis to underfit the data.
- ☐ Using too large a value of lambda can cause your hypothesis to overfit the data
- ☐ Using a very large value of lambda cannot hurt the performance of your hypothesis.
- ☒ None of the above ✓

✓ Identify the incorrect numerical functions in the various function representation of machine learning. *1/1

- ☒ Case-based ✓
- ☐ Support vector machine
- ☐ Linear regression
- ☐ Neural network

✓ What is the term known as on which the machine learning algorithms build a model based on sample data? *1/1

- ☐ Data training
- ☒ Training Data ✓
- ☐ Transfer Data
- ☐ None of the above



✗ Which of the following techniques can not be used for normalization in text mining? *0/1

- ☐ Stemming
- ☐ Lemmatization
- ☐ Stop Word Removal
- ☒ None of the above



Correct answer

- ☒ Stop Word Removal

✓ What does K stand for in K mean algorithm? *

1/1

- ☐ No. of clusters
- ☐ No. of data
- ☐ No. of attribute
- ☒ No. of iterations



✓ Which of the following is a widely used and effective machine learning algorithm based on the idea of bagging? *1/1

- ☐ Decision Tree
- ☐ Regression
- ☐ Classification
- ☒ Random Forest



✗ Which of the following techniques can not be used for normalization in text mining? *0/1

- ☐ Stemming
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- ☐ Stop Word Removal
- ☒ None of the above

✗

Correct answer

- ☒ Stop Word Removal

✗ To find the minimum or the maximum of a function, we set the gradient to zero because: *0/1

- ☐ The value of the gradient at extrema of a function is always zero
- ☐ Depends on the type of problem
- ☒ Both A and B
- ☐ None of the above

✗

Correct answer

- ☒ The value of the gradient at extrema of a function is always zero



✓ What is the purpose of feature selection?

1/1

- ☐ To remove irrelevant features
- ☐ To reduce overfitting
- ☐ To improve model interpretability
- ☒ All Above



✗ Which of the following is/are common classes of problems in machine learning?

*0/1

- ☐ Regression
- ☒ Classification
- ☐ Clustering
- ☐ All of the above



Correct answer

- ☒ All of the above

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