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question ever again

IMPORTANT: Do not let the time run out and expect the system to grade you automatically. You must explicitly submit your answers, otherwise they would be marked as incomplete.

Question 1
1/1 point (graded)

You can define Jaccard as the size of the intersection divided by the size of the union of two label sets.

☒ True
☐ False

Submit You have used 1 of 1 attempt

Correct (1/1 point)

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Correct (1/1 point)

Question 2
1/1 point (graded)

When building a decision tree, we want to split the nodes in a way that increases entropy and decreases information gain.

☐ True
☒ False

Submit You have used 1 of 1 attempt

Correct (1/1 point)

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Question 3

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1/1 point (graded)

Which of the following statements are true? (Select all that apply.)

- ☒ K needs to be initialized in K-Nearest Neighbor.
- ☒ Supervised learning works on labelled data.
- ☐ A high value of K in KNN creates a model that is over-fit
- ☐ KNN takes a bunch of unlabelled points and uses them to predict unknown points.
- ☒ Unsupervised learning works on unlabelled data.

Save

Submit You have used 1 of 2 attempts

Correct (1/1 point)

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Correct (1/1 point)

Question 4

1/1 point (graded)

To calculate a model's accuracy using the test set, you pass the test set to your model to predict the class labels, and then compare the predicted values with actual values.

- ☒ True
- ☐ False

Submit You have used 1 of 1 attempt

Correct (1/1 point)

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Question 5

1/1 point (graded)

Which is the definition of entropy?

- ☐ The purity of each node in a decision tree.
- ☐ Information collected that can increase the level of certainty in a particular prediction.
- ☐ The information that is used to randomly select a subset of data.
- ☒ The amount of information disorder in the data.

✓

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Correct (1/1 point)

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Question 6

1/1 point (graded)

Which of the following is true about hierarchical linkages?

- ☒ Average linkage is the average distance of each point in one cluster to every point in another cluster
- ☐ Complete linkage is the shortest distance between a point in two clusters
- ☐ Centroid linkage is the distance between two randomly generated centroids in two clusters
- ☐ Single linkage is the distance between any points in two clusters

✓

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Correct (1/1 point)

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Question 7

1/1 point (graded)

The goal of regression is to build a model to accurately predict the continues value of a dependent variable for an unknown case.

☒ True

☐ False

✓

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✓ Correct (1/1 point)

Question 8

1 point possible (graded)

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Question 8

1/1 point (graded)

Which of the following statements are true about linear regression? (Select all that apply)

☒ With linear regression, you can fit a line through the data.

☒ $y = a + b \cdot x_1$ is the equation for a straight line, which can be used to predict the continuous value y .

☐ In $y = \theta^T X$, θ is the feature set and X is the "weight vector" or "confidences of the equation", with both of these terms used interchangeably.

✓

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✓ Correct (1/1 point)

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✓ Correct (1/1 point)

Question 9

1/1 point (graded)

The Sigmoid function is the main part of logistic regression, where $\text{Sigmoid}(\theta^T x)$ gives us the probability of a point belonging to a class, instead of the value of y directly.

☒ True

☐ False

✓

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✓ Correct (1/1 point)

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Question 10

1/1 point (graded)

In comparison to supervised learning, unsupervised learning has:

☒ Less tests (evaluation approaches)

☐ More models

☐ A better controlled environment

☐ More tests (evaluation approaches), but less models

✓

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✓ Correct (1/1 point)

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✓ Correct (1/1 point)

Question 11
1/1 point (graded)

The points that are classified by Density-Based Clustering and do not belong to any cluster, are outliers.

☒ True
☐ False

✓

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✓ Correct (1/1 point)

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Question 12

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Question 12
1/1 point (graded)

Which of the following is false about Simple Linear Regression?

☐ It does not require tuning parameters
☐ It is highly interpretable
☐ It is fast
☒ It is used for finding outliers

✓

Save

Submit You have used 1 of 2 attempts

✓ Correct (1/1 point)

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Question 13

1/1 point (graded)

Which one of the following statements is the most accurate?

- ☒ Machine Learning is the branch of AI that covers the statistical and learning part of artificial intelligence.
- ☐ Deep Learning is a branch of Artificial Intelligence where computers learn by being explicitly programmed.
- ☐ Artificial Intelligence is a branch of Machine Learning that covers the statistical part of Deep Learning.
- ☐ Artificial Intelligence is the branch of Deep Learning that allows us to create models.

✓

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Correct (1/1 point)

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1/1 point (graded)

Which of the following are types of supervised learning?

- ☒ Classification
- ☒ Regression
- ☒ KNN
- ☐ K-Means
- ☐ Clustering

✓

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Correct (1/1 point)

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✓ Correct (1/1 point)

Question 15

1/1 point (graded)

A Bottom-Up version of hierarchical clustering is known as Divisive clustering. It is a more popular method than the Agglomerative method.

☐ True

☒ False

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✓ Correct (1/1 point)

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✓ Correct (1/1 point)

Question 16

1/1 point (graded)

Select all the true statements related to Hierarchical clustering and K-Means.

☒ Hierarchical clustering does not require the number of clusters to be specified.

☐ Hierarchical clustering always generates different clusters, whereas k-Means returns the same clusters each time it is run.

☒ K-Means is more efficient than Hierarchical clustering for large datasets.

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✓ Correct (1/1 point)

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Question 17

1/1 point (graded)

What is a content-based recommendation system?

- ☒ Content-based recommendation system tries to recommend items to the users based on their profile built upon their preferences and taste.
- ☐ Content-based recommendation system tries to recommend items based on similarity among items.
- ☐ Content-based recommendation system tries to recommend items based on the similarity of users when buying, watching, or enjoying something.

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Correct (1/1 point)

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Correct (1/1 point)

Question 18

1/1 point (graded)

Before running Agglomerative clustering, you need to compute a distance/proximity matrix, which is an n by n table of all distances between each data point in each cluster of your dataset.

- ☒ True
- ☐ False

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Correct (1/1 point)

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Question 19

1/1 point (graded)

Which of the following statements are true about DBSCAN? (Select all that apply)

- ☒ DBSCAN can be used when examining spatial data.
- ☒ DBSCAN can be applied to tasks with arbitrary shaped clusters, or clusters within clusters.
- ☐ DBSCAN is a hierarchical algorithm that finds core and border points.
- ☒ DBSCAN can find any arbitrary shaped cluster without getting affected by noise.

✓

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Correct (1/1 point)

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Question 20

1/1 point (graded)

In recommender systems, "cold start" happens when you have a large dataset of users who have rated only a limited number of items.

☐ True

☒ False

✓

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Correct (1/1 point)

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