

Congratulations! You passed!

TO PASS 70% or higher

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Phase 2. Project 2

LATEST SUBMISSION GRADE

100%

 The D-DIMER values are highly concentrated <1k, but there are many samples that are several orders of magnitude apart from the rest of the samples. What is the most likely explanation for this? (Hint: look at the data samples, particularly the exam metadata.) 1/1 point

- The data was collected from two cohorts from two different time periods
- There is a large disparity in D-DIMER lab values across patient age
- The data collected from one the clinics may use different units
- There is a large disparity in D-DIMER lab values across patient gender

Correc

Clinic B D-DIMER lab values are 3 orders of magnitude apart, implying a different recordkeeping protocol from the other clinics.

Graded Quiz • 30 min

Phase 2. Project 2

Due Mar 22, 2:59 PM CST

Check all that apply.

A tree-based model, such as random forest, can be trained directly on the data with missing values

Correct

Tree-based models are able to adapt to settings where there are missing values.

A tree-based model, such as random forest, can be trained after the missing values are synthetically generated, using a process known as <u>imputation</u>

✓ Correct

Tree-based models are already able to adapt to settings where there are missing values, therefore imputation does not affect its feasibility.

A logistic regression model can be trained after the missing values are synthetically generated, using a process known as <u>imputation</u>

Phase 2. Project 2
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imputation fills in the missing values.

A logistic regression model can be trained directly on the data with missing values

Which of the following is FALSE regarding logistic regression models?

4/4

- Logistic regression produces values between 0 and 1, regardless of the scale of the features
- O Logistic regression is commonly used for classification problems
- Logistic regression uses the sigmoid activation function
- Logistic regression can take unstructured inputs, such as images or text

✓ Correct

Images (2-dimensional number grids) and text (sequences of 1-dimensional vectors) cannot be fed into logistic regression models, because logistic regression models can only receive a single 1-dimensional vector as input.

4. Which of the following is FALSE regarding random forest models?

1/1 point

- Random forest models are highly interpretable
- Random forest models learn multiple decision trees that each learn on a subset of the available features
- Random forest models are a type of decision tree algorithm
- Random forest models require feature normalization (i.e. scaling the features such that they are between 0 and 1) in order to work effectively

✓ Correct