



## Microsoft: DAT210x Programming with Python for Data Science



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## Review Question 1

(1/1 point)

In the case of the telemetry computer of a rocket ship classifying asteroids to circumnavigate them...

- ☐ True positives are the most harmful, because an android will certainly strike the ship
- ☐ True negatives are the most harmful, because the model failed to classify the asteroid, cause it to strike the ship
- ☐ False positives are the most harmful, because the model got confused resulting in the ship getting struck
- ☒ False negatives are the most harmful, because the model didn't tell the ship to dodge the asteroid ✓

## EXPLANATION

With true positives, the model told the ship to dodge the correctly identified asteroid.

**Dive Deeper**

## ► Course Wrap-up

With true negative, the model told the ship not to worry about the non-asteroid object.

With false positive, the model told the ship to dodge the non-asteroid object.

With false negative, the model told the ship not to worry about the asteroid. Oh no!

*You have used 1 of 2 submissions*

## Review Question 2

(1/1 point)

Given the following definitions:

1. Divides all samples into k-groups, ideally each having all samples except one.
2. Divides all samples into k-groups, ideally of equal size.
3. Divides all samples into k-groups, ideally each group having the same proportion of target classes.
4. Divides all samples into k-groups, ideally the same target never appearing in both testing and training groups simultaneously.

Organize the following items such that their definitions above appear in the order they're listed:

☐ Label K-Fold, Leave-One-Out, Stratified K-Fold, K-Fold

☐ Leave-One-Out, K-Fold, Label K-Fold, Stratified K-Fold

☐ Leave-One-Out, Stratified K-Fold, K-Fold, Label K-Fold

☒ Leave-One-Out, K-Fold, Stratified K-Fold, Label K-Fold ✓

☐ Stratified K-Fold, Leave-One-Out, K-Fold, Label K-Fold

#### EXPLANATION

Please see [http://scikit-learn.org/stable/modules/cross\\_validation.html#cross-validation-iterators](http://scikit-learn.org/stable/modules/cross_validation.html#cross-validation-iterators)

*You have used 1 of 2 submissions*

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