Congratulations! You passed!
TO PASS 80% or higher

Keep Learning

GRADE
100%

From Regression to Classification

TOTAL POINTS 4

1. What is a decision boundary? **1 / 1 point**

- ○ The border at which you must choose your destiny
- ○ The function that chooses the best action
- ○ The function that returns the correct class for a given example
- ◉ The line separating one class from another

Correct

2. What does a transfer function do? **1 / 1 point**

- ○ Returns the sign of the output of a regression function
- ○ Lets you use regression for classification
- ○ Translates an example from one class to another.
- ◉ Converts the output of a regression function to a class label
- ○ It depends, what do you want it to do?

Correct
Correct, generally we use "transfer function" to refer to the translation from the output of a regression model to the unordered set of class labels

3. What is the most important source of penalty when optimizing for classification? **1 / 1 point**

- ○ Magnitude of errors
- ○ Direction of misclassifications
- ○ Magnitude of misclassifications
- ○ Distance between points in the same class
- ◉ Number of misclassifications

Correct

4. When can you use the perceptron classifier? **1 / 1 point**

- ○ When the decision boundary is flat
- ○ Whenever you feel like it
- ○ When you are using a neural network
- ◉ When the classes are linearly separable
- ○ When you're classifying observations
- ○ When the optimization function is differentiable
- ○ It depends

Correct
Correct! The perceptron classification algorithm will only be successful when the classes are completely linearly separable.