Machine Learning with R IBM Cognitive Class ML0151EN

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 Statistical Modeling
- Module 2 Supervised
 Learning I

Learning Objectives

K-Nearest Neighbors (7:17)

Decision Trees (5:18)

Random Forests (3:46)

Reliability of Random Forests (3:34)

Advantages &
Disadvantages of
Decision Trees (1:25)

Lab

Graded Review Questions

Review Questions

Module 3 -Supervised LearningII

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- Module 4 -Unsupervised Learning
- Module 5 Dimensionality

 Reduction &
 Collaborative
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Instructions for Graded Review Questions

- 1. Time allowed: Unlimited
 - We encourage you to go back and review the materials to find the right answer
 - Please remember that the Review Questions are worth 50% of your final mark.
- 2. Attempts per question:
 - One attempt For True/False questions
 - Two attempts For any question other than True/False
- 3. Clicking the "<u>Final Check</u>" button when it appears, means your submission is <u>FINAL</u>. You will <u>NOT</u> be able to resubmit your answer for that question ever again
- 4. Check your grades in the course at any time by clicking on the "Progress" tab

REVIEW QUESTION 1 (1/1 point)

In K-Nearest Neighbors, which of the following is true:

- \bigcirc A very high value of K (ex. K = 100) produces a model that is better than a very low value of K (ex. K = 1)
- A very high value of K (ex. K = 100) produces an overly generalised model, while a very low value of k (ex. k = 1) produces a highly complex model. \checkmark
- \bigcirc A very low value of K (ex. K = 1) produces an overly generalised model, while a very high value of k (ex. k = 100) produces a highly complex model.
- All of the Above

You have used 2 of 2 submissions

REVIEW QUESTION 2 (1/1 point)

A difficulty that arises from trying to classify out-of-sample data is that the actual classification may not be known, therefore making it hard to produce an accurate result.

•	True	~

False

You have used 1 of 1 submissions

Cookie Preferences



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REVIEW QUESTION 3 (1/1 point)

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

● True ✔
O False
You have used 1 of 1 submissions