

▶ About this course

▶ Module 1 - Machine Learning vs Statistical Modeling

▶ Module 2 - Supervised Learning I

▶ Module 3 - Supervised Learning II

▼ **Module 4 - Unsupervised Learning**

Learning Objectives

K-Means Clustering plus Advantages & Disadvantages (5:06)

Hierarchical Clustering plus Advantages & Disadvantages (5:59)

Measuring the Distances Between Clusters - Single Linkage Clustering (2:13)

Measuring the Distances Between Clusters - Algorithms for Hierarchical Clustering (4:16)

Density Based Clustering (3:44)

Lab

Graded Review Questions

Review Questions



▶ Module 5 - Dimensionality Reduction & Collaborative Filtering

▶ Course Summary

▶ Final Exam

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 "**Final Check**" button when it appears, means your submission is **FINAL**. You will **NOT** 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 point possible)

What are some disadvantages that K-means clustering presents?

☐ Updating can occur even though there is a possibility of a centroid not having data points in its group

☐ K-means clustering is generally slower, compared to many other clustering algorithms

☒ There is high bias in the models, due to where the centroids are initiated **✗**

☐ None of the above

You have used 2 of 2 submissions

REVIEW QUESTION 2 (1/1 point)

Decision Trees tend to have high bias and low variance, which Random Forests fix.

☐ True

☒ False **✓**

You have used 1 of 1 submissions

REVIEW QUESTION 3

[Cookie Preferences](#)

Feedback

- Completion
Certificate and
Badge

Hierarchical Clustering.

☐ True

☒ False ✓

You have used 1 of 1 submissions