Unit 5: Overview





Unsupervised machine learning is a powerful methodology in data mining, helping us to uncover "hidden" patterns in data.



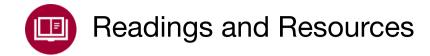
Unit 5 Learning Objectives

After completing this module, you should be able to:

- Understand the nature and scope of unsupervised machine learning
- Understand common types of clustering models

These learning objectives relate to the following course learning objectives:

- Determine the correct analytical methods to apply
- Construct real-world models and analyses
- Discuss pros and cons of different analytical approaches



Read:

Website

- Scikit Learn: 2.3. Clustering (https://scikit-learn.org/stable/modules/clustering.html)
- Chapter Introduction: Data Exploration → (https://endtoenddatascience.com/chapter8-data-exploration)

Lectures/Documents

Unit 5: Lecture: Clustering (https://canvas.park.edu/courses/85581/files/11997422?wrap=1) ↓
(https://canvas.park.edu/courses/85581/files/11997422/download?download_frd=1)

Complete:

• Unit 5 Discussion

- o Initial Post: Due Thursday, 11:59 p.m. CT.
- In the initial post the student scholar:
 - Uses the weekly materials to construct an academic argument that addresses the discussion question in a thorough and logical manner.
 - Correctly uses key terms and concepts. Thoroughly addresses all components of the prompt. Ideas are clear and on-topic.
 - Follows grammar conventions. The writing is concise and easy to read.
 - Writes approximately 200 words
 - Please review the rubric for this assignment before beginning to ensure that you earn full credit. Contact me if you have any questions.
- Peer Response: Respond to 2 or more classmates by 11:59 p.m., Sunday, CT.
 - Once you have posted your initial response, please respond to the postings of **two of your classmates'** initial postings. Subsequent postings can be in whatever format you prefer. To earn full credit, be sure to ask questions or additional information that furthers the discussion. Comments that are the equivalent of, "Great response, that's what I think" will not earn full credit.

• Unit 5 Assignment

Due Sunday 11:59 p.m., CT.