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Machine Learning with Python-From Linear Models to Deep Learning

<u>Course</u> <u>Progress</u> <u>Dates</u> <u>Discussion</u> <u>Resources</u>

☆ Course / Unit 4. Unsupervised Learning (2 weeks) / Lecture 13. Clustering 1

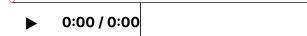


5. Clustering Definition

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Exercises due Apr 19, 2023 08:59 -03 Completed

Clustering Definition



▶ 1.0x

Video

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Transcripts

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Partition Definition

1/1 point (graded)

A **partition** of a set is a grouping of the set's elements into non-empty subsets, in such element is included in one and only one of the subsets. In other words, C_1,C_2,\ldots,C_n if and only if

$$C_1 \cup C_2 \cup \ldots \cup C_K = \{1,2,\ldots,n\}$$

and

$$C_i \cap C_j = \emptyset \quad ext{for any } i
eq j ext{ in } ig\{1, \dots, kig\}$$

(Select all those apply.)

✓	A partition of indices into sets,
✓	"Representatives" in each of the partition sets, given as
	Number of clusters
	Set of feature vectors
~	
Su	bmit You have used 2 of 2 attempts

Discussion

Topic: Unit 4. Unsupervised Learning (2 weeks) :Lecture 13. Clustering 1 / 5. Clustering Definition

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Union of partitions @ 1:30 in the video

Professor says And I want to emphasize that we are not remembering the element but the index or the ind





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