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# K-Means Cluster Analysis

Cluster analysis is an unsupervised machine learning method that partitions the observations in a data set

∨ More

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What Is a k-Means Cluster Analysis?

Start Lesson

(/learn/machine-learning-data-analysis/lecture/p94tY/what-is-a-k-means-cluster-analysis)

▶️ What Is a k-Means Cluster Analysis?  7 min

(/learn/machine-learning-data-analysis/lecture/p94tY/what-is-a-k-means-cluster-analysis)

Help Center

# Running a k-Means Cluster Analysis in SAS

(▶) Running a k-Means Cluster Analysis in SAS, pt. 1   8 min

(/learn/machine-learning-data-analysis/lecture/hVbQ3/running-a-k-means-cluster-analysis-in-sas-pt-1)

(▶) Running a k-Means Cluster Analysis in SAS, pt. 2   6 min

(/learn/machine-learning-data-analysis/lecture/OQeJt/running-a-k-means-cluster-analysis-in-sas-pt-2)

(▤) SAS Code: k-Means Cluster Analysis

(/learn/machine-learning-data-analysis/supplement/6gPut/sas-code-k-means-cluster-analysis)

# Running a k-Means Cluster Analysis in Python

(●) Python Code: k-Means Cluster Analysis

(/learn/machine-learning-data-analysis/supplement/0y9ri/python-code-k-means-cluster-analysis)

(▶) Running a k-Means Cluster Analysis in Python, pt. 1   8 min

(/learn/machine-learning-data-analysis/lecture/Ebb2M/running-a-k-means-cluster-analysis-in-python-pt-1)

(▶) Running a k-Means Cluster Analysis in Python, pt. 2   10 min
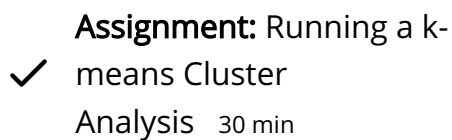
(/learn/machine-learning-data-

analysis/lecture/XJJz2/running-a-k-means-cluster-
analysis-in-python-pt-2)

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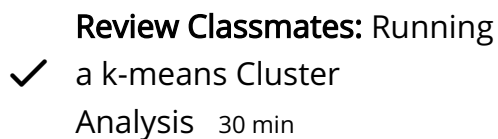## k-Means Cluster Analysis Limitations

▶ k-Means Cluster Analysis
Limitations   3 min

(/learn/machine-learning-data-
analysis/lecture/7DgSi/k-means-cluster-analysis-
limitations)

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## Assignment

✓ **Assignment:** Running a k-
means Cluster
Analysis   30 min

(/learn/machine-learning-data-
analysis/peer/jHz9s/running-a-k-means-cluster-
analysis)

✓ **Review Classmates:** Running
a k-means Cluster
Analysis   30 min

(/learn/machine-learning-data-
analysis/peer/jHz9s/running-a-k-means-cluster-
analysis/give-feedback)

⬤   Assignment Example

(/learn/machine-learning-data-
analysis/supplement/b2kkW/assignment-
example)