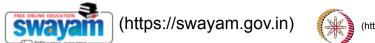
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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Data Science for Engineers (course)

Announcements (announcements) About the Course (https://swayam.gov.in/nd1\_noc20\_cs28/preview)

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## Unit 10 - Week 8

Course outline	Practice Assignment 8	
How does an NPTEL online course work?	The due date for submitting this assignment has passed. Due on 2020-03-25, 23: As per our records you have not submitted this assignment.	59 IST.
Week 0	Note: This assignment is only for practice purpose and it will not be counted towards to score	he Final
Week 1	The most commonly used distance metric to calculate distance between centroid of each	1 point
Week 2	cluster and data points in K-means algorithm is	•
Week 3	Chebyshev distance  Manhattan	
Week 4	Euclidean distance	
	None of the above	
Week 5	No, the answer is incorrect. Score: 0	
Week 6	Accepted Answers: Euclidean distance	
Week 7	2) K means clustering classifies variables based on :-	1 point
Week 8	dependent and independent variables	
O.K. Named	the eigen values	
K - Nearest Neighbors	distance between the points and a cluster centre	
(kNN) (unit?	None of the above	
unit=64&lesson=65)	No, the answer is incorrect.	
O K - Nearest	Score: 0	
Neighbors	Accepted Answers:	
implementation	dependent and independent variables	
in R (unit? unit=64&lesson=66)	3) Which of the following statement is <b>NOT TRUE</b> about kNN algorithm?	1 point

OK - means	It is a non-parametric algorithm	
Clustering (unit? unit=64&lesson=67)	It is an instance based learning algorithm	
	Explicit training and testing phases are involved while implementing kNN	
K - means implementation in R (unit? unit=64&lesson=68)	None of the above	
	No, the answer is incorrect. Score: 0	
	Accepted Answers:	
FAQ (unit? unit=64&lesson=69)	Explicit training and testing phases are involved while implementing kNN	
	4) Scaling is important in distance-based algorithms because	1 point
Data Science for engineers - Summary (unit?	variables with higher magnitude will influence the results more	
	<ul> <li>distance calculations are affected by the magnitude of the variables</li> </ul>	
unit=64&lesson=70)	The data is large and has many features	
Week 8 data set (unit?	Both A and B	
unit=64&lesson=71)	No, the answer is incorrect. Score: 0	
O Quiz : Practice	Accepted Answers:	
Assignment 8 (assessment?	variables with higher magnitude will influence the results more	
name=97)	5) Which of the following is TRUE with respect to K means clustering?	1 point
Quiz : Assignment 8 (assessment?	The inter cluster distance is minimized and intra cluster distance is maximized	
	The inter cluster distance is maximized and intra cluster distance is minimized	
name=127)	Both inter cluster and intra cluster distance are minimized	
Week 8 Feedback (unit? unit=64&lesson=129)	Both inter cluster and intra cluster distance are maximized	
	No, the answer is incorrect. Score: 0	
Solution -	Accepted Answers:	
Assignment 8 (unit? unit=64&lesson=131)	The inter cluster distance is maximized and intra cluster distance is minimized	

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