ED5340:Data Science: Theory and practice

LAB 13 : PART 1

Done

Opened: Wednesday, 17 April 2024, 2:00 PM
Due: Wednesday, 17 April 2024, 6:00 PM

1) Create the following data and write to a csv file: Generate 10 random points in each of the the following circles (i) centre at (3,3) and radius 2, (ii) centre at (7,7) and radius 2 (iii) centre at (11,11) and radius 2. Plot the data as well. (2 marks)

2) Implement K - means clustering algorithm (with out using sklearn library) and for the above data, show the change in the centroid as well as the class assignments. Also, plot the cost function for K varying from 1 to 5. Show that the value of K matches with the intuition from the data. Plot the K-classes for the final K-value. (8 marks)

Submission status

Submission status	Submitted for grading
	This assignment is not accepting submissions
Grading status	Graded
Time remaining	Assignment was submitted 2 mins 56 secs early
Last modified	Wednesday, 17 April 2024, 5:57 PM
File submissions	AM23M022_LAB13_PART1_17_04_2024.py17 April 2024, 5:57 PM
Submission comments	Comments (0)

Feedback

Grade	10.00 / 10.00
Graded on	Saturday, 1 June 2024, 10:51 PM

Graded by eN ed19b022 N R GOKULA KRISHNA

◄ LAB 12: VIDEO LINK SUBMISSION

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LAB13: PART 2 ►