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Machine Learning with Python-From Linear Models to Deep Learning

Discussion Course **Progress** Dates Resources

* Course / Unit 4. Unsupervised Learning (2 weeks) / Lecture 14. Clustering 2



2. Limitations of the K Means Algorithm

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

Limitations of the K Means Algorithm



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Limitations of the K-Means Algorithm I

0/1 point (graded)

Remember that the K-Means Algorithm is given as below:

- 1. Randomly select z_1, \dots, z_K
- 2. Iterate
 - 1. Given z_1,\ldots,z_K , assign each data point $x^{(i)}$ to the closest z_j , so that

$$\operatorname{Cost}\left(z_{1}, \ldots z_{K}
ight) = \sum_{i=1}^{n} \min_{j=1, \ldots, k} \left\|x^{(i)} - z_{j}
ight\|^{2}$$

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Limitations of the K-Means Algorithm I [STAFF] In the solution of the first problem, in the second formula for z, x is incorrectly written as index.















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