## 3. Introduction to the K-Medoids Algorithm

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

**Introduction to the K-Medoids Algorithm**



0:00 / 0:00 1.0x

**Video**
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## K-Medoids Algorithm as a Variation of K-Means

1/1 point (graded)

As explained in the lecture video, the K-Medoids algorithm is a variation of the K-Means addresses some of the K-Means algorithm's limitations. The K-Medoids algorithm is giv

1. Randomly select $\{z_1, \ldots, z_K\} \subseteq \{x_1, \ldots, x_n\}$
2. Iterate
    1. Given $z_1, \ldots, z_K$, assign each $x^{(i)}$ to the closest $z_j$, so that

$$\text{Cost}\,(z_1, \ldots z_K) = \sum_{i=1}^{n} \min_{j=1,\ldots,k} \text{dist}\,(x^{(i)}, z_j)$$

Submit You have used 1 of 1 attempt

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Concept Check: K-Medoids Algorithm