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Programming Assignment 8

Click this link to download the Animals Clustering notebook and then complete problems 1-4.

Problem 1

1/1 point (graded)

What initialization method was used for k-means in the notebook?

- The k-means++ algorithm was called
- lacktriangle centers were chosen at random from the data points
- $\widehat{}$ The first k data points were chosen as centers



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Problem 2

1/1 point (graded)

Based on your experiences with k-means, which of the following statements seems the most accurate?

- lacktriangle In general, the k-means cost function has multiple local optima
- Lloyd's algorithm does not necessarily find a local optimum of the k-means cost function

k-means was fast, but hierarchical clustering took a long time

Hierarchical clustering was fast, but k-means took a long time



They were both fast, because the data set was small



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