Mentor Help
Ask a mentor on our Q&A platform

Check Your Understanding

Before getting into the code, let's check some of the main ideas of PCA.

QUESTION 1 OF 3

Which of the following best describes the goal of PCA?

To reduce the dimensionality of an existing dataset to a smaller number of features.

◯ To create a new dataset.

◯ To maximize the variability in a dataset.

◯ None of the above are related to the goal of PCA.

SUBMIT

QUESTION 2 OF 3

You can also think of a **principal component** as a... (select all that apply)

linear combination of the original features in a dataset.

latent variable.

a new feature that can be used in a future analysis.

SUBMIT

QUESTION 3 OF 3

The amount of information lost when performing PCA can be thought of as

◯ the variability in the original data.

◯ the difference between the value we predict and the value that is actually calculated.

the distance from the original points to the created component.