Congratulations! You passed!

TO PASS 80% or higher

Keep Learning

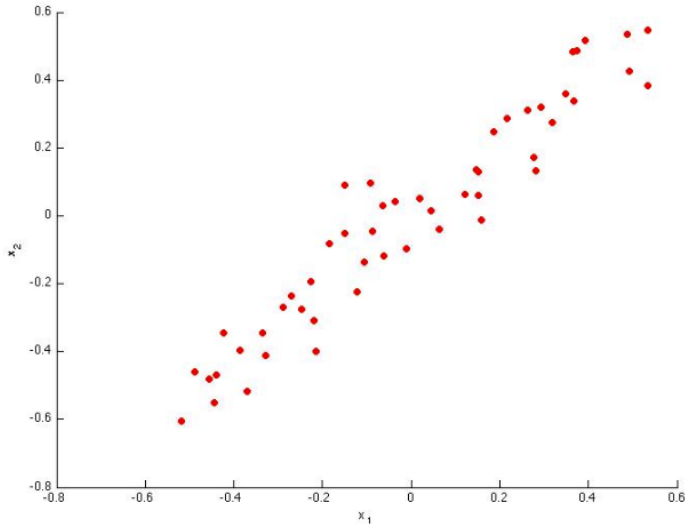
GRADE 100%

Principal Component Analysis

LATEST SUBMISSION GRADE

100%

1. Consider the following 2D dataset: 1 / 1 point



Correct

The maximal variance is along the y = x line, so the negative vector along that line is correct for the first principal component.

Correct

This is correct, as it maintains the structure of the data while maximally reducing its dimension.

If the input features are on very different scales, it is a good idea to perform feature scaling before applying PCA.

Correct

If your learning algorithm is too slow because the input dimension is too high, then using PCA to speed it up is a reasonable choice.