Q1. PCA objective

1 Objective Question [1 mark]

What are the objectives of Principal Components Analysis (PCA)? Select all that are correct.

1. Maximize the variance along the new output dimensions
2. Minimize the variance along the new output dimensions
3. Maximizing the orthogonal distance between the data and the new output dimension
4. Minimize the orthogonal distance between the data and the new output dimension

Sol 1) Maximize the variance along the new output dimensions

4) Minimize the orthogonal distance between the data and the new output dimensions