Your latest: 100% • Your highest: 100% • To pass you need at least 66%. We keep your highest score.

What is the purpose of dimensionality reduction in enterprise datasets?	1/1p
To improve model performance by reducing the number of features used.	
O To create clusters for grouping data points.	
O To predict the target with the best accuracy.	
O To improve model performance by providing a ranking of the features and maximizing the features used.	
<ul> <li>♥ Correct</li> <li>Correct! This is accomplished by either selecting a subset of the original features or by creating new features from them.</li> </ul>	
(True/False) Principal Component Analysis reduces dimensions by identifying features that can be excluded.	1/1p
False	
O True	
<ul> <li>✓ Correct</li> <li>Correct! Instead, PCA creates new features that are linear combinations of the original ones.</li> </ul>	
Let's say that PCA found two principal components $v_1$ and $v_2$ . $v_1$ accounts for 0.5 of the total amount of variance in our dataset and $v_2$ accounts for 0.24. Which one is more important and why?	1/1p
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$\bigcirc \ v_1$ because it reduces 50% of the total variance in the dataset.	
$igcup v_2$ because it accounts for lower variance in the dataset.	
$igcup_2$ because it reduces the amount of variance in the dataset.	
<ul> <li>✓ Correct</li> <li>Correct! We are able to retain more information about the original dataset by projecting</li> </ul>	