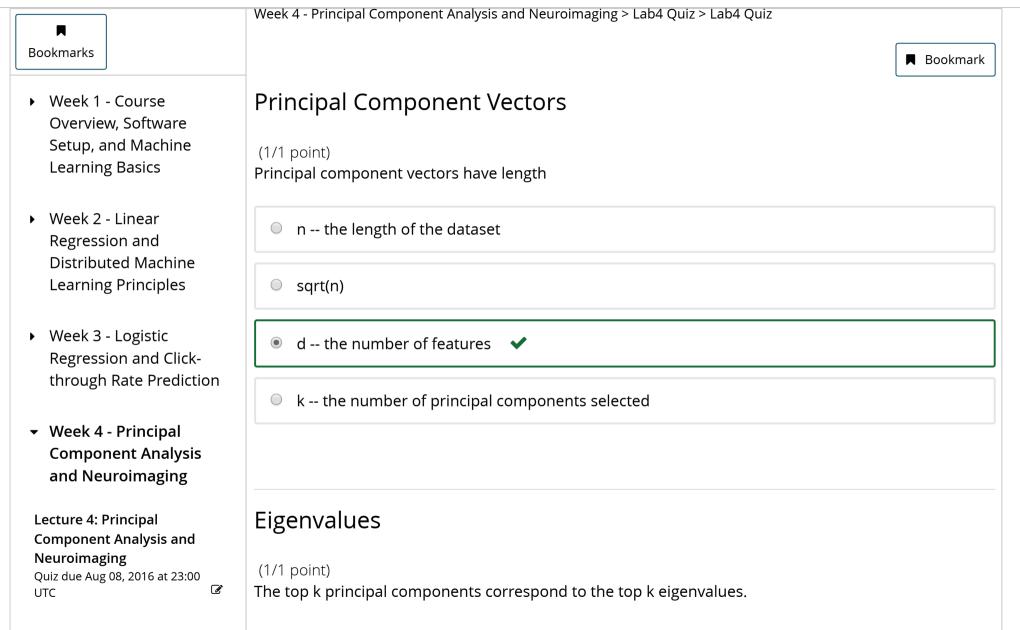


BerkeleyX: CS120x Distributed Machine Learning with Apache Spark



Lab4 - Neuroimaging ● True Analysis via PCA Lab due Aug 08, 2016 at 23:00 UTC False Lab4 Quiz Quiz due Aug 08, 2016 at 23:00 UTC Computation and Storage Complexity (1/1 point) The distributed PCA algorithm we implemented in the lab used: O(d^2) local storage O(d^3) local computation O(d) local storage O(d^2) local computation Note: Make sure you select all of the correct options—there may be more than one! Plotting Correlated Variables

(1/1 point) In Visualization 1, what would the data look like if covariance equaled -1.0?		
O A	vertical line	
O Si	imilar to covariance of 0	
O Si	imilar to covariance of .9	
A	diagonal line 🗸	
High Positive Covariance		
(1/1 point) In Visualization 1 when the covariance is .9, where are most of the points on the plot?		
lower-left and lower-right		
upper-right and lower-left		
O u	pper-left and lower-right	

upper-left and upper-right
PCA Function
(1/1 point) When running the pca function what is the largest k we should use?
0 1
n length of dataset
● d number of features ✔
Time Based Aggregation
(1/1 point) In Visualization 9, does the resulting spatial map appear symmetric or asymmetric about the midline (horizontal line across the middle of the brain)?
● Symmetric ✔

O Asymmetric
Direction Based Aggregation
(1/1 point) in visualization 10, does the resulting spatial map appear symmetric or asymmetric about the midiline (horizontal line across the middle of the brain)?
Symmetric
● Asymmetric ✔
Survey: Lab4 Completion Time
(1/1 point) How long did Lab FOUR take you to complete (in hours - decimals are OK)?
5 ✓ Answer: 0
$oxed{5}$

Please click "Check" to save your answers.

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