5/19/2021 Quiz 5

> Quiz 5 Total points 85/100 The respondent's email (irfan.ahmed@stonybrook.edu) was recorded on submission of this K-means algorithm is guaranteed to converge 15/15 True False The objective function of PCA is to minimize the sum of squared 10/10 reconstruction errors. True False ✓ EM is not a coordinate descent algorithm 15/15 True False

EM is guaranteed to converged to a global solution	n 15/15
<ul><li>True</li><li>False</li></ul>	<b>✓</b>
✓ The GMM algorithm described in class is an EM a	gorithm 15/15
<ul><li>True</li><li>False</li></ul>	<b>✓</b>
★ The K-means algorithm described in class is an El	M algorithm 0/15
<ul><li>True</li><li>False</li></ul>	×
Correct answer  False	
✓ If we want to use PCA to reduce the dimension of dimensions, we should project the data to the kellargest eigen values	
<ul><li>True</li><li>False</li></ul>	~