lame HW4				
escription				
ubric Detail				
	Levels of Achievement			
Criteria	Novice	Competent	Proficient	
Q1-Agglomerative Clustering (Single) Weight 5.00%	0 %	75 %	100 %	
	Not Done	Fundamental problem in implementation.	Correctly performing the clustering task. Most students will probably use hclust as was advised by the problem.	
Q1-Agglomerative Clustering (Average) Weight 5.00%	0 %	75 %	100 %	
	Not Done	Fundamental problem in implementation.	Correctly performing the clustering task. Most students will probably use holust as was advised by the problem.	
Q1-Agglomerative Clustering (Complete)	stering 0 % Not Done	75 %	100 %	
Weight 5.00%		Fundamental problem in implementation.	Correctly performing the clustering task. Most students will probably use helust as was advised by the problem.	
Q1-KMeans-Choice of k	0 %	80 %	100 %	
Weight 4.00%	Not done, or completely out of range.	K=2,9,10	3<=k<=8	
Q1-KMeans-Reasoning for k	0 %	80 %	100 %	
Weight 8.00%	Not Given.	Partially correct reasons	For k=3 argument could be historical/economical. Include some mathematical reasoning if arguing k above 3. For instance, the mathematical reasoning could be the elbow plot or any model selection test.	

Criteria	Levels of Achievement			
	Novice	Competent	Proficient	
Q1-KMeans-Clustering Weight 3.00%	0 % Not Given.	80 %	100 % See if results seem reasonable.While K can vary, similar countries are supposed to be in same group.	
Q2-Splitting data	0 %	80 %	100 %	
Weight 10.00%	Not Done	The d value was not reported, or an unfit method of splitting resulted in the model being recognizably mistrained.	Report method for splitting; d value (the chunks size) and amount of overlap. Expected range 10<=d<=32. d can be most values as long as accuracy is okay (>=60%)	
Q2-Making clustering using pieces from training data Weight 10.00%	0 % Not Done.	90 % Picking unreasonable k values.	100 % Reasonable k (50<=k<=600) should be picked for this stage using K means or hierarchical k means. The student is supposed to figure out that the model needs a relatively large k to perform well, and pick a neither too large nor too small value.	
Q2-Turning each training sample into histogram based on train clustering Weight 10.00%	0 % Not Done.	80 % Incorrect translation into histograms.	100 % For each training signal sample: 1)Divide the signal into chunks as before 2)Find the closest Centroid to each chunk 3)Represent the signal by a series of closest centroid indices 4) Turn the series of indices into a	
Q2-Building Classifier using training histograms Weight 10.00%	0 % Not Done.	80 % Building a classifier and incorrectly training it.	histogram. 100 % Any kind of classifier is acceptable as long as implemented correctly. Most students will likely use random forests since the problem advised so, but any other classifiers are also acceptable.	

Criteria	Levels of Achievement			
	Novice	Competent	Proficient	
Q2-Turning testing samples into histograms using train clustering, and classifying the historgrams and evaluating the test accuracy Weight 20.00%	0 % Not Done.	90 % Partially correct testing procedure.	100 % The test samples should be turned into histograms using the trained centroids.	
Q2-Trying other parameters and reporting best accuracy Weight 10.00%	0 % Not Done.	80 % Partial correctness.	100 % Trying at least one other parameter setting. And getting a reasonable accuracy (>=60%).	

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