Exercise 3 Report

Part1: Parameter List

For part 1, parameter list contained the following:

Condition Tables – Used to lookup the probabilities for certain attribute values given a condition. Each attribute value has an associated probability that can be look up which saves processing time.

Prior Probability – Stores the probability of a certain number of conditions

Av2_c2.mat: Accuracy = 0.890917

2 Attribute Values

2 Conditions

2nd condition had a higher percentage of errors

Av3_c2.mat: Accuracy = 0.893535

3 Attribute Variables

2 Conditions

2nd condition again had a higher percentage of errors

Av7_c3.mat: Accuracy = 0.862609

7 Attribute Variables

3 Conditions

3rd Condition contained the highest percentage of errors confused mostly with 1st Condition

Enter a	filename	to load	data fo	r training/	testing:	av2_c2.mat
Confusio	nMatrix =					
	1298	106				
	145	752				
*****	******	******	*****	******	***	
Overall	Accuracy	on Datas	set av2	c2.mat: 0.8	390917	
******	******	******	******	******	***	

Enter	a f	ilename	to	load	data	for	training	/testing:	av3_c2.mat
Confus	sionl	Matrix	=						
	1:	298		106					
	:	139		758					
*****	***	*****	***	****	****	****	******	***	
Overal	1 A	ccuracy	on	Datas	set a	73_c2	2.mat: 0.	893525	
	Confus	Confusion 1: :	ConfusionMatrix 1298 139	ConfusionMatrix = 1298 139	ConfusionMatrix = 1298 106 139 758	ConfusionMatrix = 1298 106 139 758	ConfusionMatrix = 1298 106 139 758	ConfusionMatrix = 1298 106 139 758	1298 106 139 758

Part2: Parameter List

For part 2, parameter list contained the following:

Mean - Calculates the mean of each attribute for each condition

Standard Deviation – Calculates the standard deviation of each attribute for each condition

Prior Probability – Stores the probability of a certain number of conditions

Avc_c2.mat: Accuracy = 0.832247

Continuous Attribute Values

2 Conditions

1st Condition contained the higher percentage of errors.