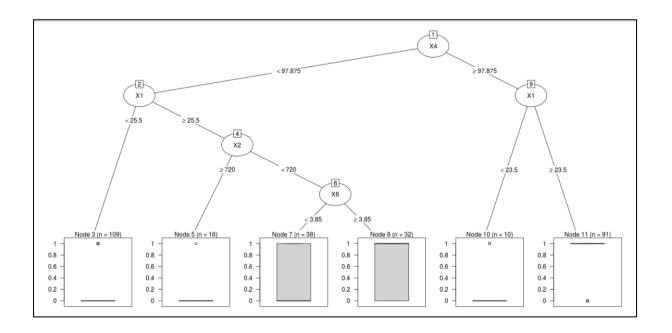
Name: Pooja Ganesh Teje Student ID: 19300746 Course code: CS7DS1

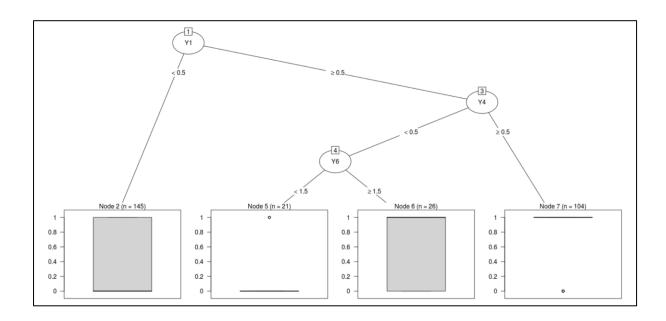
Decision tree using X data



Accuracy for Decision tree using X data: 0.814189189189

Without handling null values	With handling null values
Accuracy: 0.753378378378378	Accuracy: 0.814189189189
n= 296 CP nsplit rel error xerror xstd 1 0.48591549 0 1.0000000 1.0000000 0.06052995 2 0.04225352 1 0.5140845 0.5211268 0.05246361	n= 296

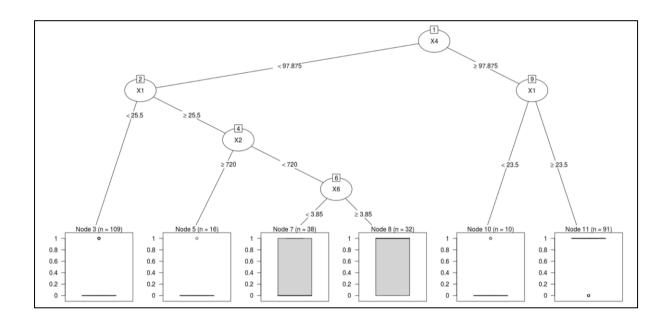
Decision tree using Y data



Accuracy for Decision tree using Y data: 0.756756756756757

Without hand	lling null values			With handling null values
Accuracy: 0.7	73648648648649			Accuracy: 0.756756756756757
n= 296				n= 296
CP r	nsplit rel error	xerror	xstd	CP nsplit rel error xerror xstd
1 0.41549296	0 1.0000000	1.2323944	0.05956313	1 0.40140845 0 1.0000000 1.0000000 0.06052995
2 0.04225352	1 0.5845070	0.6197183	0.05537820	2 0.04929577 1 0.5985915 0.6478873 0.05607571
3 0.03521127	2 0.5422535	0.6056338	0.05500785	3 0.04225352 2 0.5492958 0.6408451 0.05590664
4 0.01000000	4 0.4718310	0.5211268	0.05246361	4 0.01408451 3 0.5070423 0.5492958 0.05337543

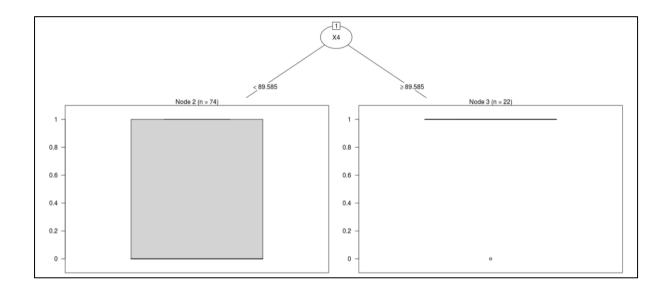
Decision tree using X & Y data



Accuracy for Decision tree using X & Y data: 0.814189189189

00100100100
189189189
lit rel error xerror xstd 0 1.0000000 1.0000000 0.06052995 1 0.5140845 0.5492958 0.05337543 2 0.4718310 0.5281690 0.05269781 5 0.3873239 0.5000000 0.05173521

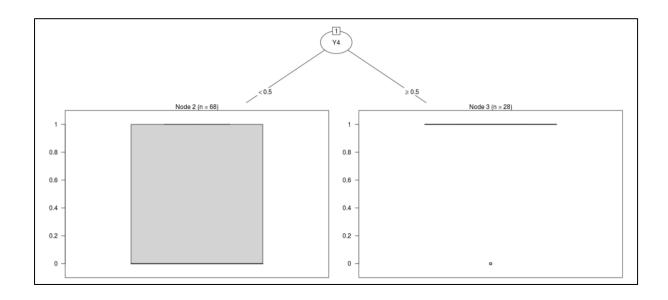
Decision tree using X data for group 0



Accuracy for Decision tree using X data for group 0: 0.736486486486487

Without handling null values	With handling null values
Accuracy: 0.736486486486487	Accuracy: 0.736486486486487
n= 96	n= 96
CP nsplit rel error xerror xsto	CP nsplit rel error xerror xstd
1 0.40909091 0 1.0000000 1.0000000 0.1109533	1 0.4090909 0 1.0000000 1.0000000 0.1109532
2 0.04545455 1 0.5909091 0.6590909 0.1022464	2 0.0625000 1 0.5909091 0.6363636 0.1012151

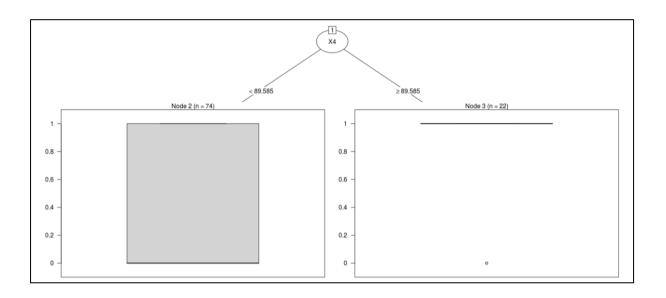
Decision tree using Y data for group 0



Accuracy for Decision tree using Y data for group 0: 0.668918918919

Without handling null values	With handling null values
Accuracy: 0.668918918919	Accuracy: 0.668918918919
n= 96	n= 96
CP nsplit rel error xerror xstd	CP nsplit rel error xerror xstd
1 0.3636364	1 0.36363636 0 1.0000000 1.0000000 0.1109532
2 0.0100000 1 0.6363636 0.6363636 0.1012151	2 0.01363636

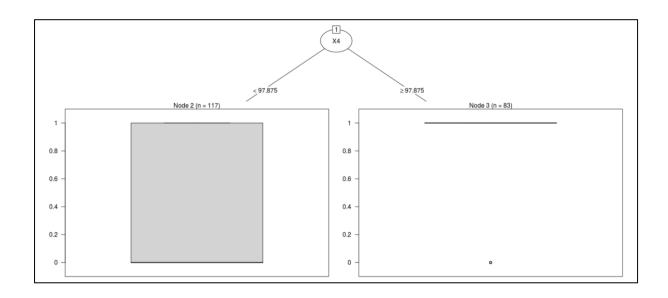
Decision tree using X & Y data for group 0



Accuracy for Decision tree using X & Y data for group 0: 0.736486486486487

Without handling null values	With handling null values
Accuracy: 0.736486486486487	Accuracy: 0.736486486486487
n= 96	n= 96
CP nsplit rel error xerror xstd	CP nsplit rel error xerror xstd
1 0.40909091 0 1.0000000 1.0000000 0.1109532	1 0.4090909 0 1.0000000 1.0000000 0.1109532
2 0.04545455 1 0.5909091 0.6363636 0.1012151	2 0.0625000 1 0.5909091 0.6590909 0.1022464

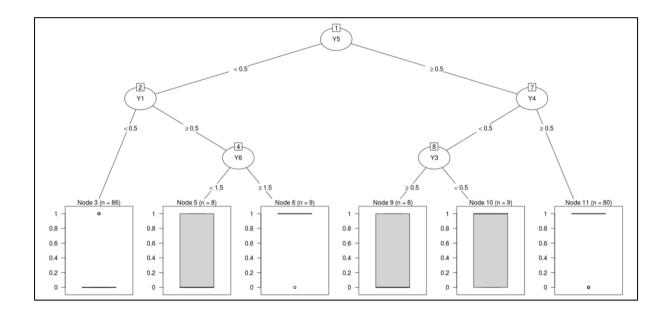
Decision tree using X data for group 1



Accuracy for Decision tree using X data for group 1: 0.753378378378378

Without handling null values	With handling null values
Accuracy: 0.756756756756757	Accuracy: 0.753378378378378
n= 200 CP nsplit rel error xerror xstd 1 0.54081633	n= 200 CP nsplit rel error xerror xstd 1 0.54081633

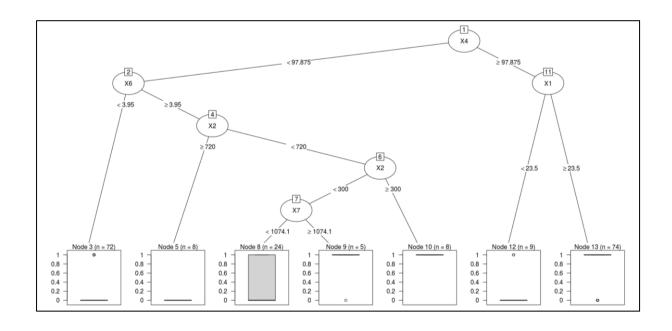
Decision tree using Y data for group 1



Accuracy for Decision tree using Y data for group 1: 0.77027027027027

Without handling null values	With handling null values
Accuracy: 0.719594594594595	Accuracy: 0.77027027027027
n= 200 CP nsplit rel error xerror xstd 1 0.51020408 0 1.0000000 1.0000000 0.07213932 2 0.02040816 1 0.4897959 0.5204082 0.06289805	n= 200 CP nsplit rel error xerror xstd 1 0.51020408

Decision tree using X & Y data for group 1 *



Accuracy for Decision tree using X & Y data for group 1: 0.817567567568

Without handling null values	With handling null values
Accuracy: 0.766891891892	Accuracy: 0.817567567567568
n= 200 CP nsplit rel error xerror xstd 1 0.54081633	n= 200 CP nsplit rel error xerror xstd 1 0.54081633