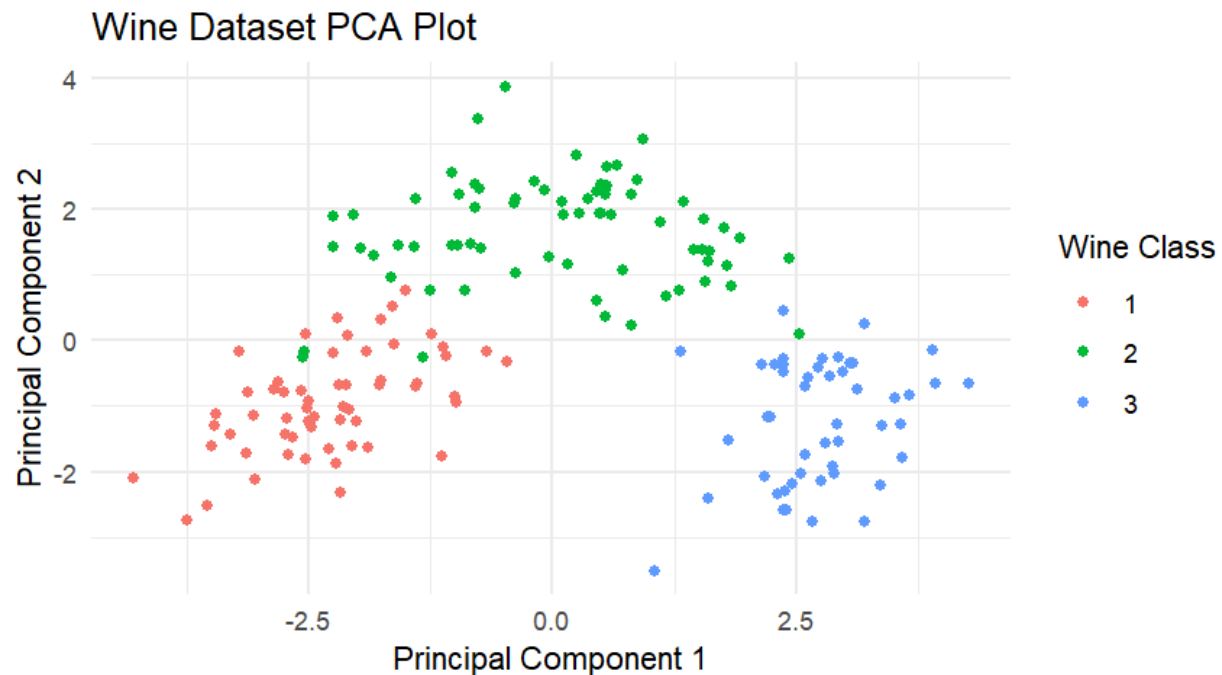


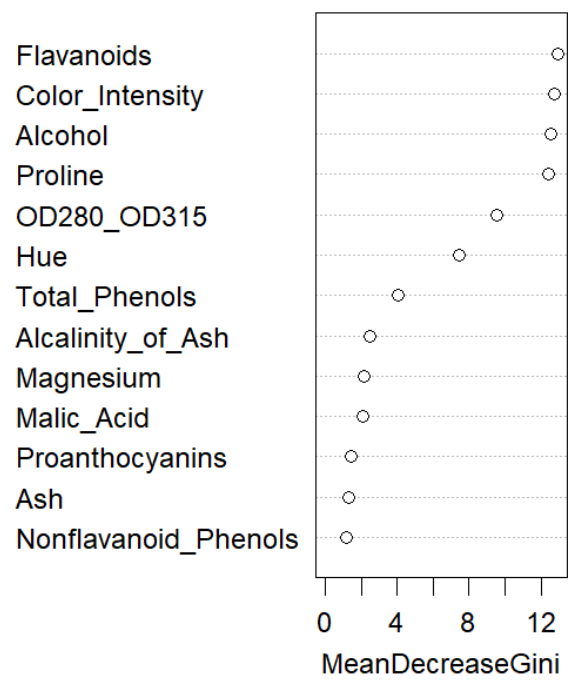
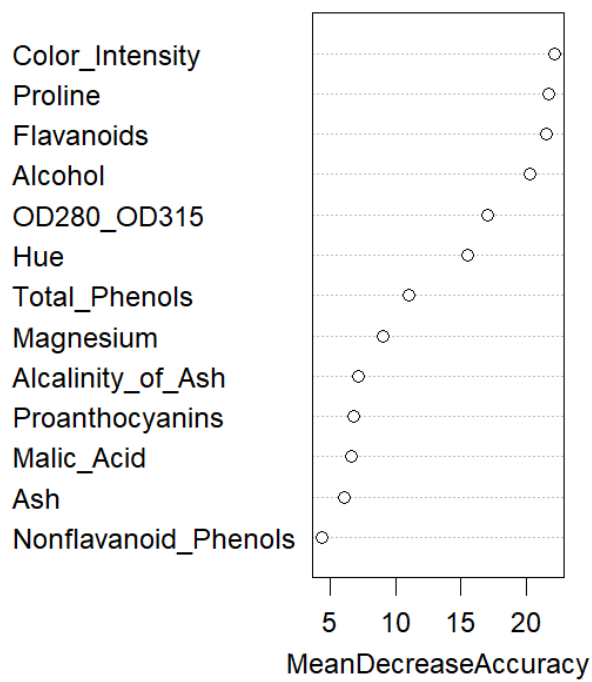
HI PROFESSOR!!!! 😊

Here are all the Text Outputs & Graphs/Plots

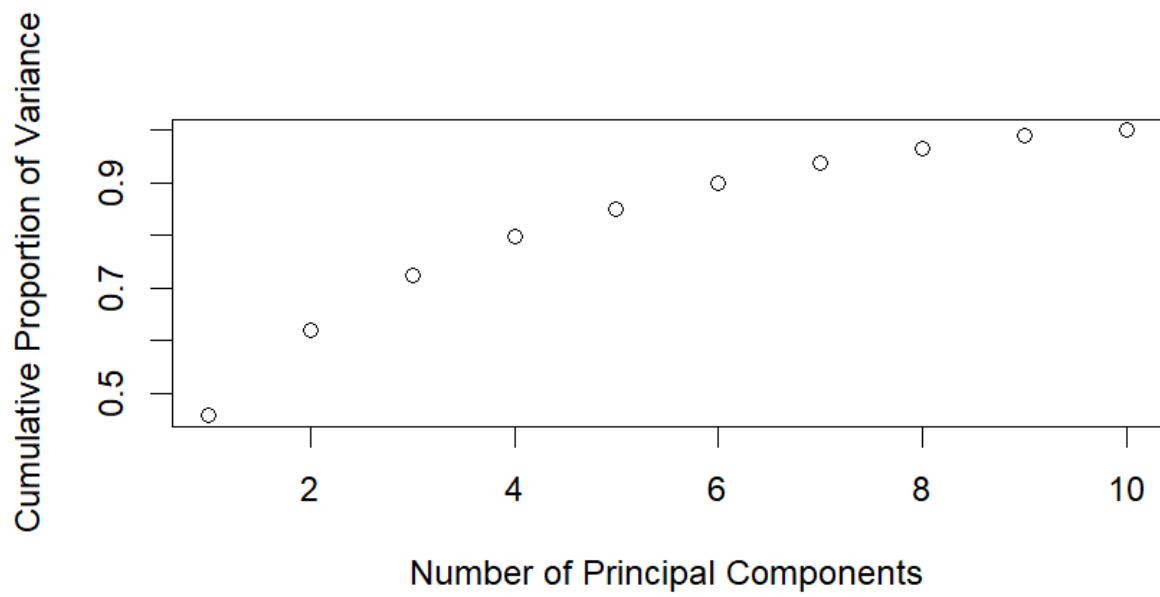
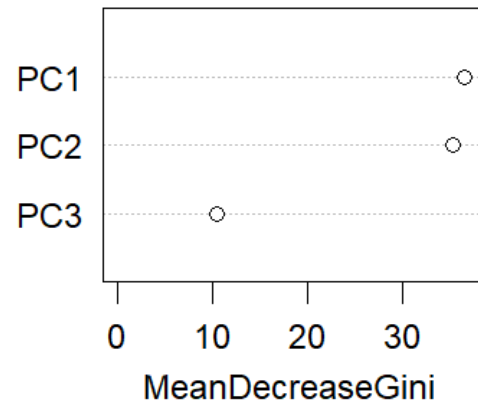
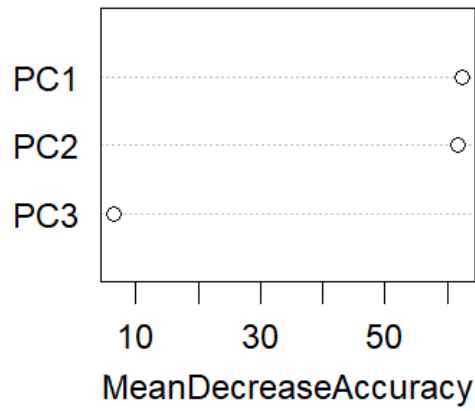


	Variable	Contribution
Flavanoids	Flavanoids	0.422934297
Total_Phenols	Total_Phenols	0.394660845
OD280_OD315	OD280_OD315	0.376167411
Proanthocyanins	Proanthocyanins	0.313429488
Nonflavanoid_Phenols	Nonflavanoid_Phenols	0.298533103
Hue	Hue	0.296714564
Proline	Proline	0.286752227
Malic_Acid	Malic_Acid	0.245187580
Alcalinity_of_Ash	Alcalinity_of_Ash	0.239320405
Alcohol	Alcohol	0.144329395
Magnesium	Magnesium	0.141992042
Color_Intensity	Color_Intensity	0.088616705
Ash	Ash	0.002051061

rf_model



rf_model_pca



Confusion Matrix and Statistics

Prediction	Reference		
	1	2	3
1	20	1	0
2	1	16	0
3	0	2	14

Overall Statistics

Accuracy : 0.9259
95% CI : (0.8211, 0.9794)
No Information Rate : 0.3889
P-Value [Acc > NIR] : < 2.2e-16

Kappa : 0.888

Mcnemar's Test P-Value : NA

Statistics by Class:

	Class: 1	Class: 2	Class: 3
Sensitivity	0.9524	0.8421	1.0000
Specificity	0.9697	0.9714	0.9500
Pos Pred Value	0.9524	0.9412	0.8750
Neg Pred Value	0.9697	0.9189	1.0000
Prevalence	0.3889	0.3519	0.2593
Detection Rate	0.3704	0.2963	0.2593
Detection Prevalence	0.3889	0.3148	0.2963
Balanced Accuracy	0.9610	0.9068	0.9750

