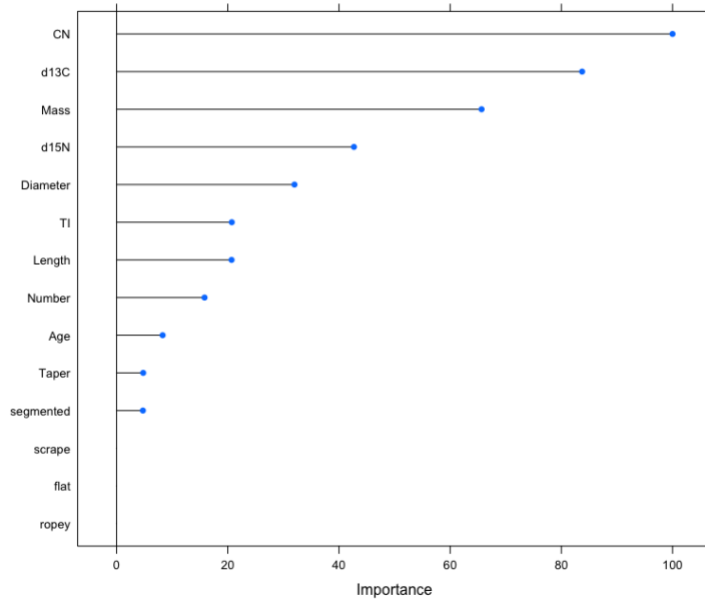
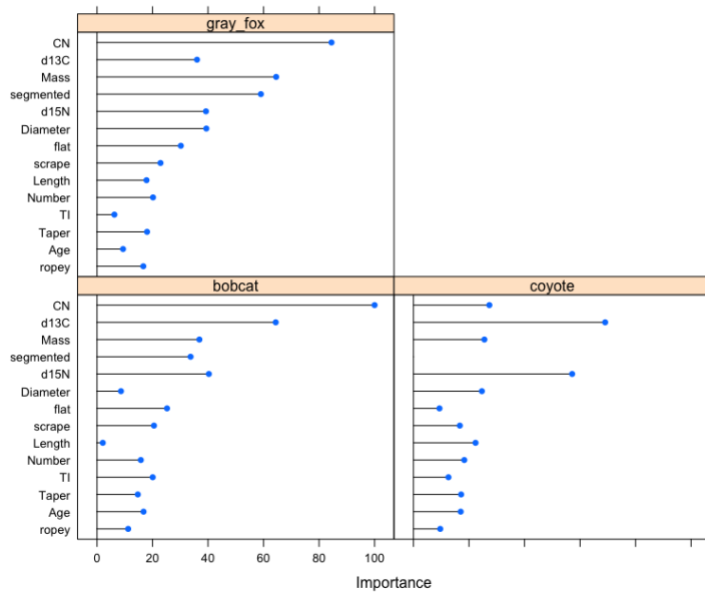
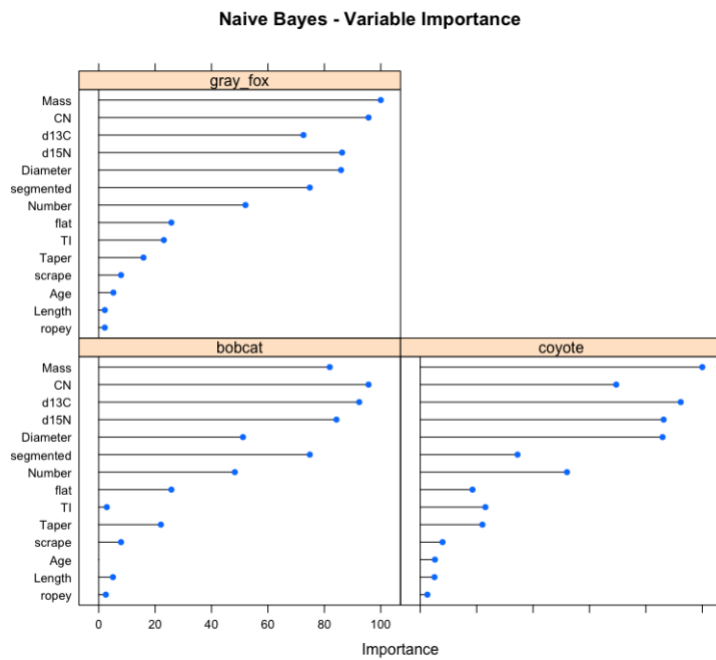
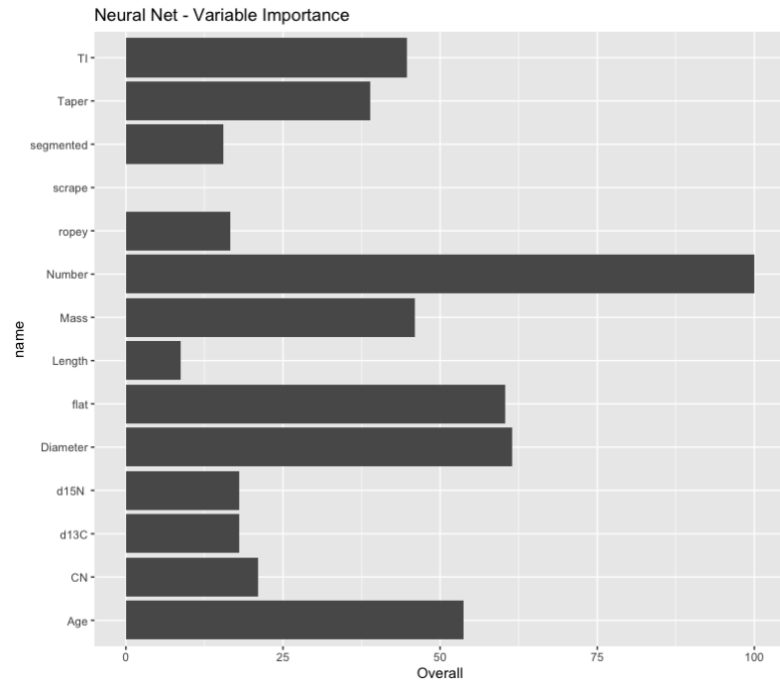


GBM - Variable Importance

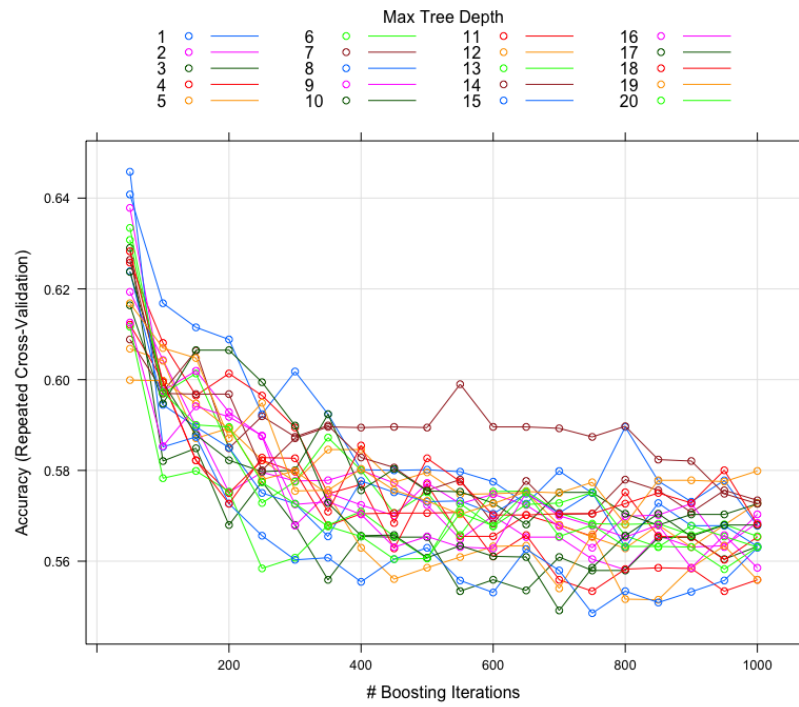


RF - Variable Importance

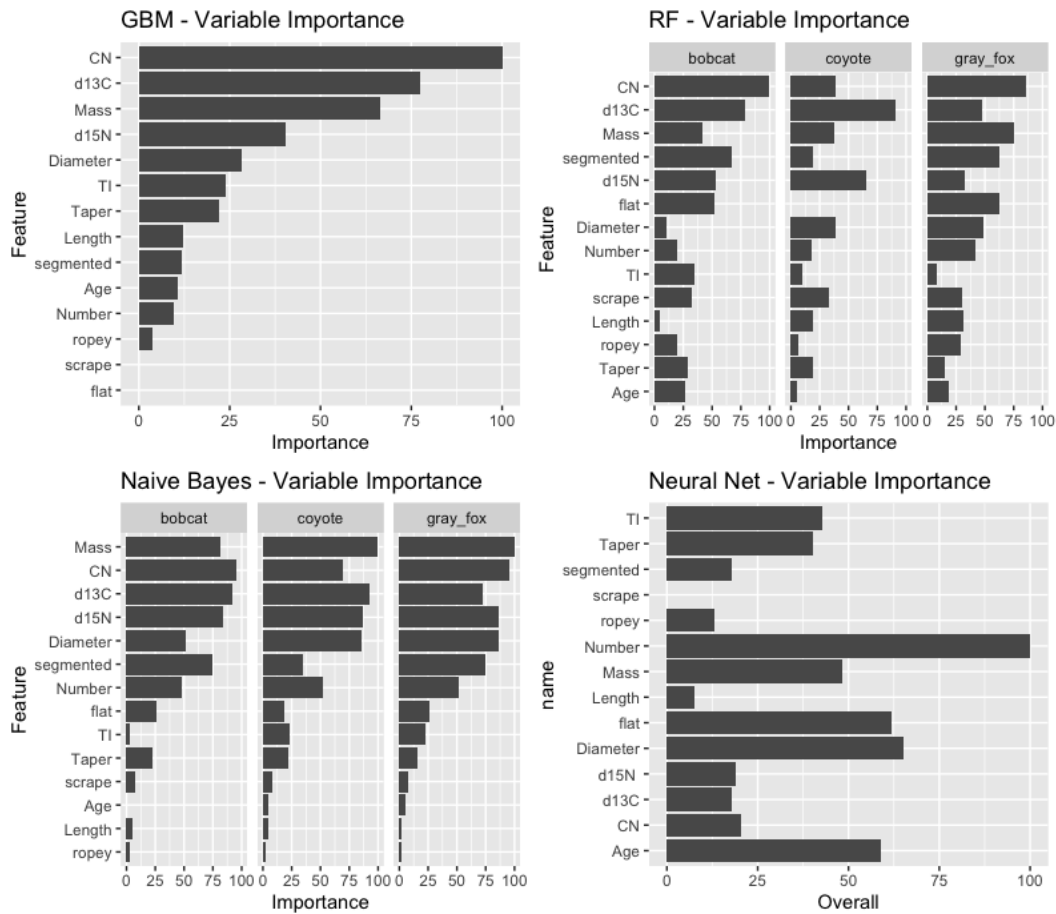




Plotting the GBM with tune length = 20



Combining all the plots together and printing them



Printing Dataframe consisting of all the best models from models build in following scales –

- 1) Models using the best 3 features
- 2) Models using the tuning of the features
- 3) Combination of 1) and 2) Models using best 3 features and tuning of those features

```
> print(total_10)
```

	Experiment	Accuracy	Kappa
80	Neural Network with Tune for top 3 Features	0.7655752	0.6010872
11	Naive Bayes with top 3 Features	0.7564246	0.5765330
40	Neural Network with Tune for all features	0.7378105	0.5660206
22	Naive Bayes with Tune for top 3 Features	0.7360327	0.5345680
6	Neural Network with top 3 Features	0.7298132	0.5449672
12	Random Forest with Tune for top 3 Features	0.7145033	0.5096485
4	Random Forest with Tune for all features	0.7029183	0.4847383
2	Random Forest with top 3 Features	0.6926276	0.4668292
353	GBM with Tune for top 3 Features	0.6809118	0.4729273
21	Naive Bayes with Tune for all features	0.6803497	0.4573714
15	GBM with Tune for all features	0.6416111	0.4058856
1	GBM with top 3 Features	0.6395396	0.3831167

```
> |
```