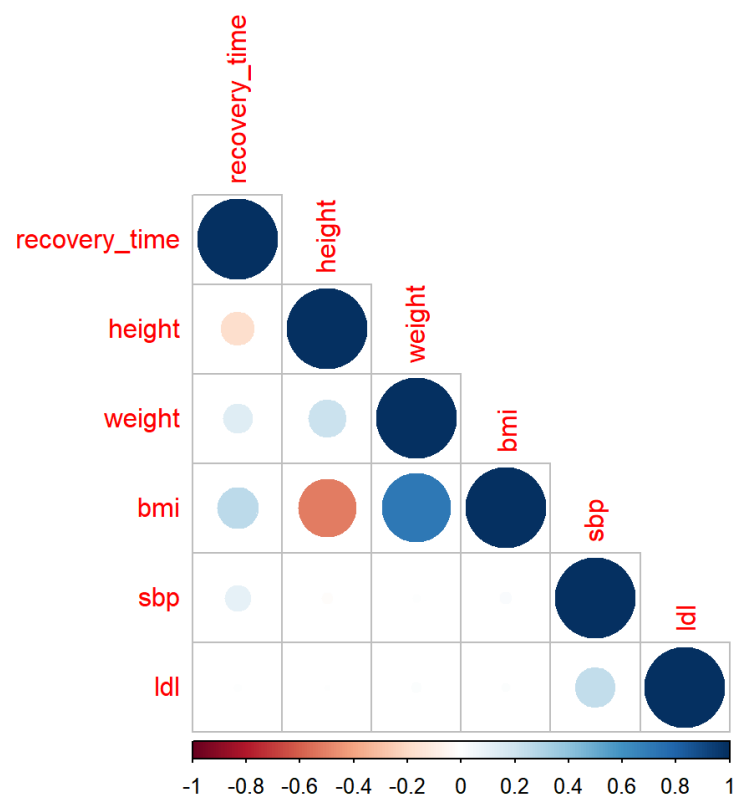


Supplementary Files

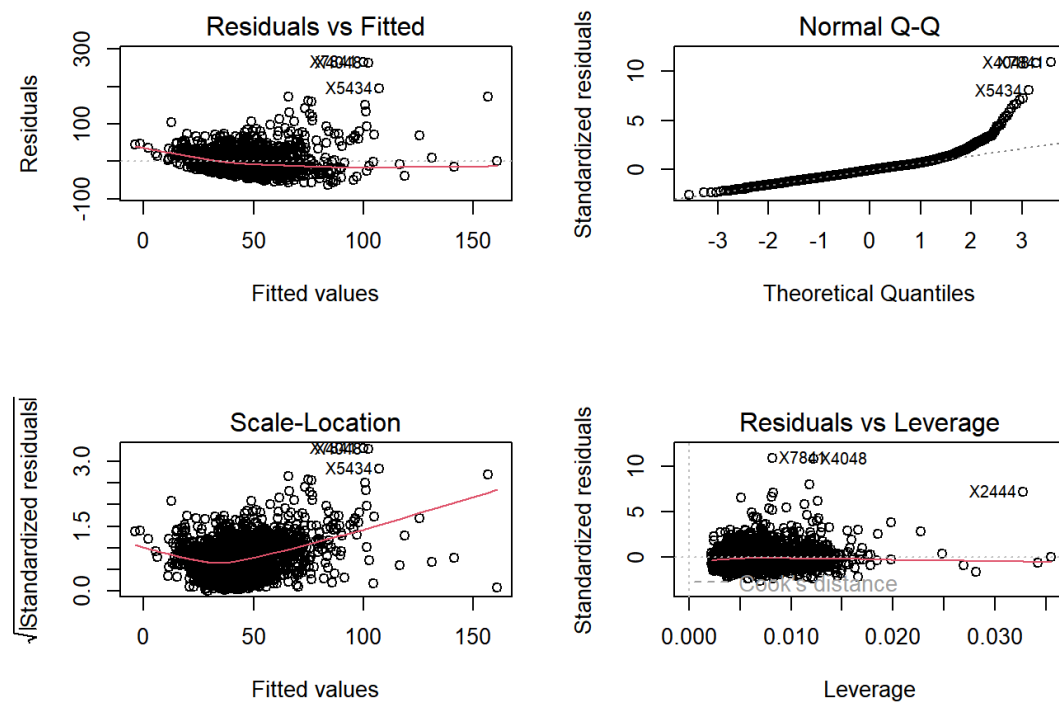
Sup.1 Summary of the dataset

Variable	Type	Mean (prob)	Description
age	continuous	60.2	unit in years
gender	binary	0.492	male encoded as 1
race	nominal	/	white, Asian, black or hispanic
smoking	ordinary	/	no/former/current smokers
height	continuous	170.1	unit in centimeters
weight	continuous	80.01	unit in kilograms
BMI	continuous	27.71	height/weight^2
hypertension	binary	0.502	yes encoded as 1
diabetes	binary	0.154	yes encoded as 1
SBP	continuous	130.4	Systolic blood pressure in mmHg
LDL	continuous	110.4	unit in mg/L
vaccine	binary	0.605	vaccinated encoded as 1
severity	binary	0.107	severe encoded as 1
study	nominal	/	A, B or C
recovery_time	continuous	42.91	unit in days
recovery_bin	binary	0.693	t: ≥ 30 encoded as 1

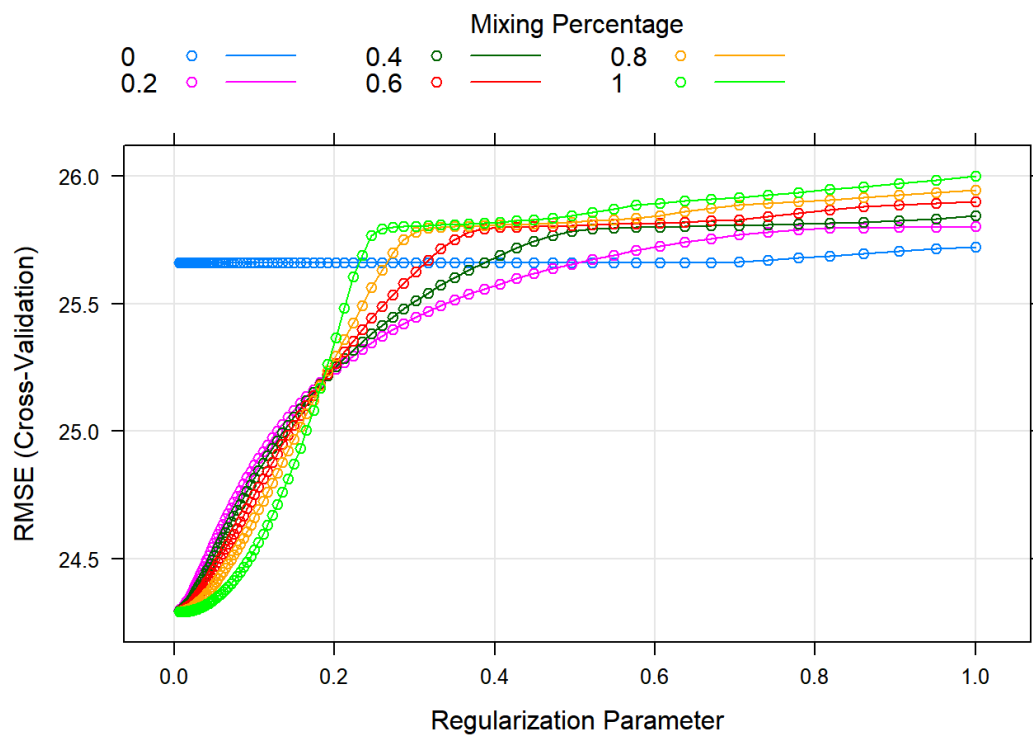
Sup.2 Correlation plot of continuous predictors



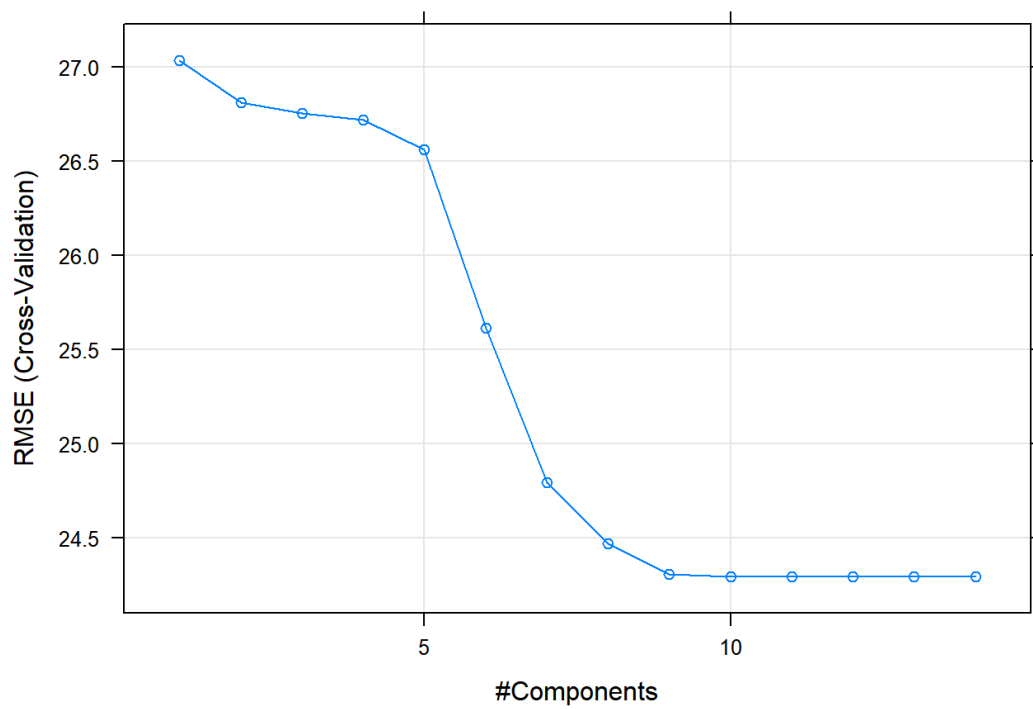
Sup.3 Linear model diagnosis plot



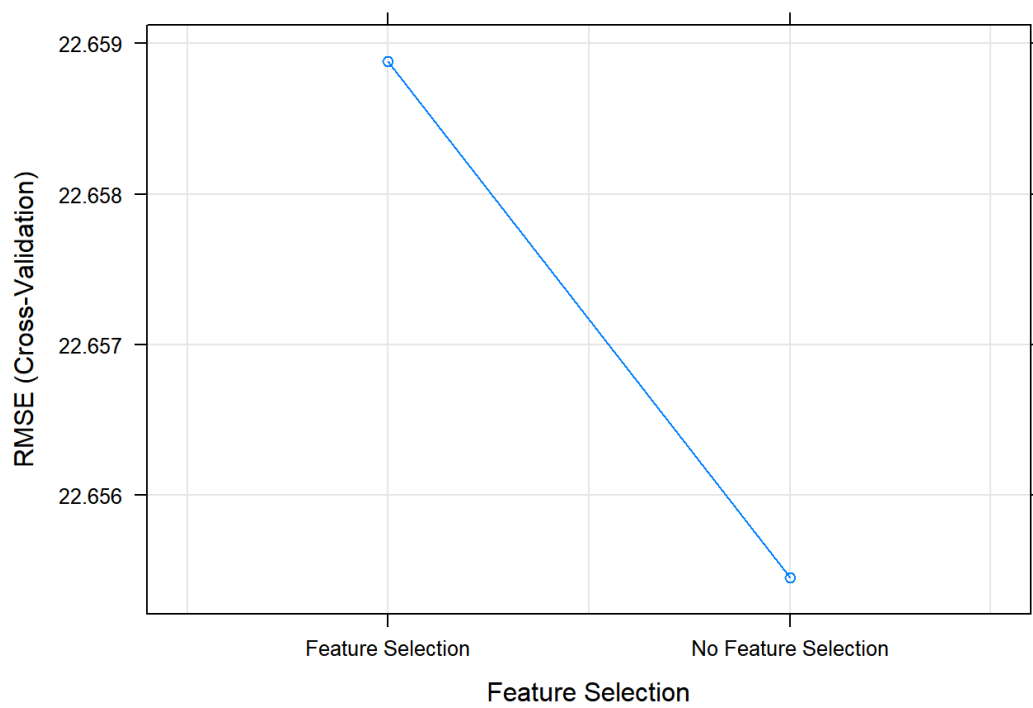
Sup.4 RMSE of Enet tuning grid



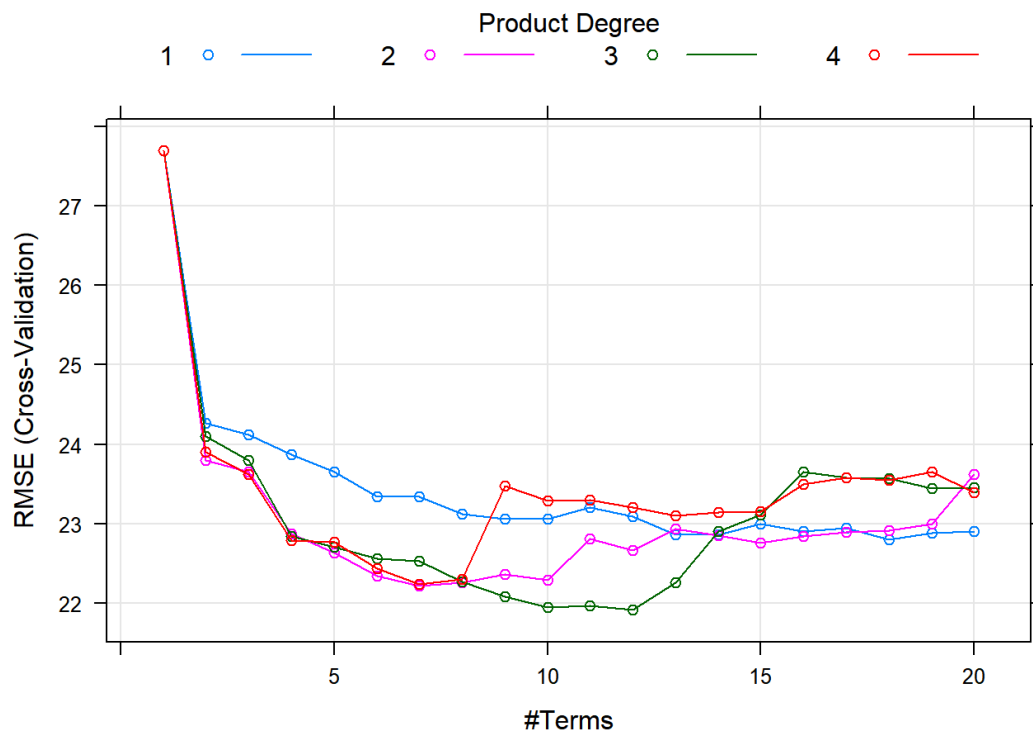
Sup.5 RMSE of PLS for different numbers of components



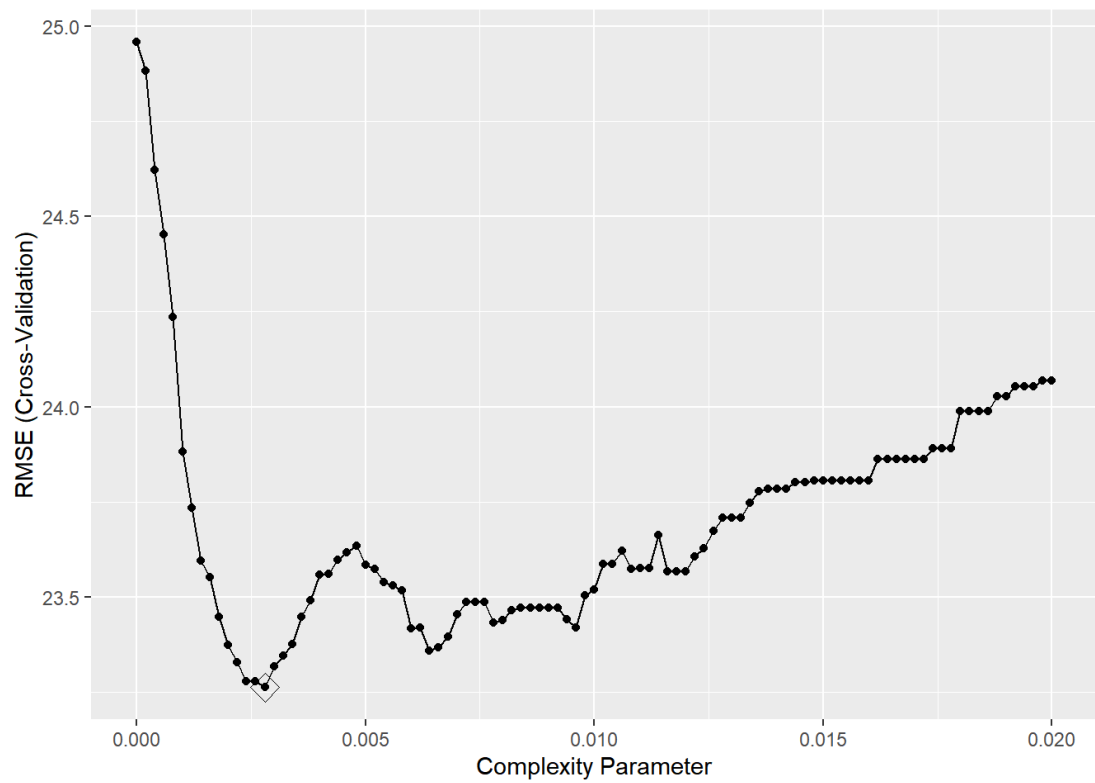
Sup.6 RMSE of GAM with/without feature selection



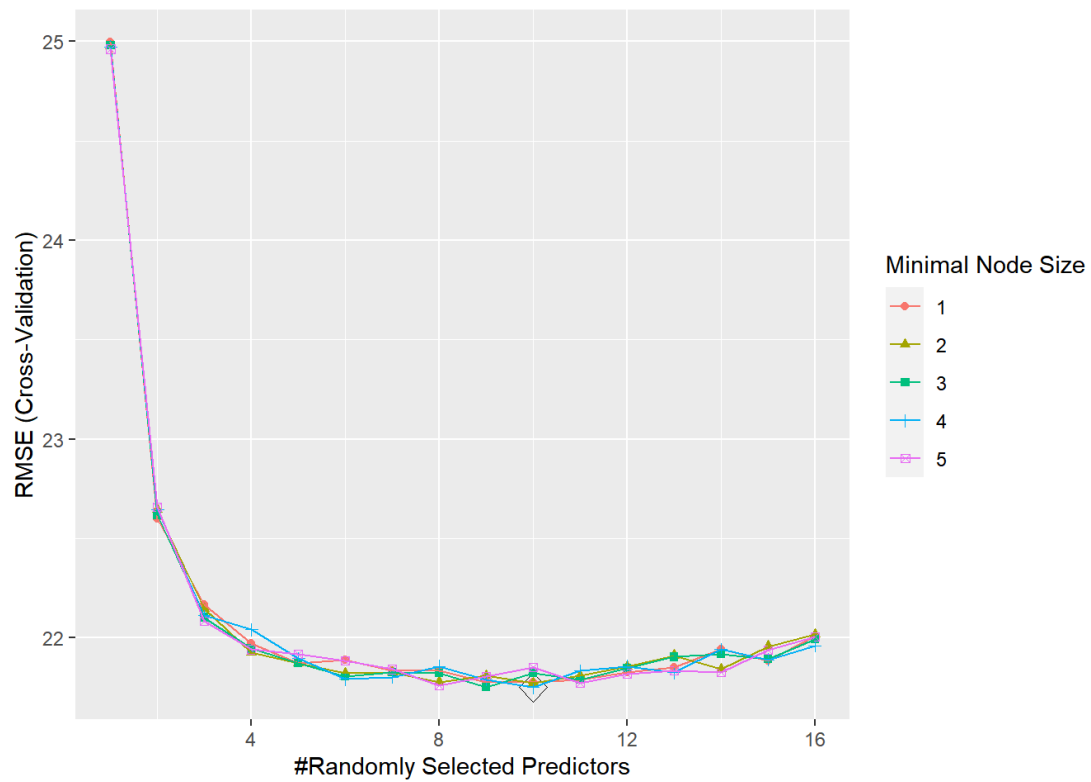
Sup.7 RMSE of MARS tuning grid



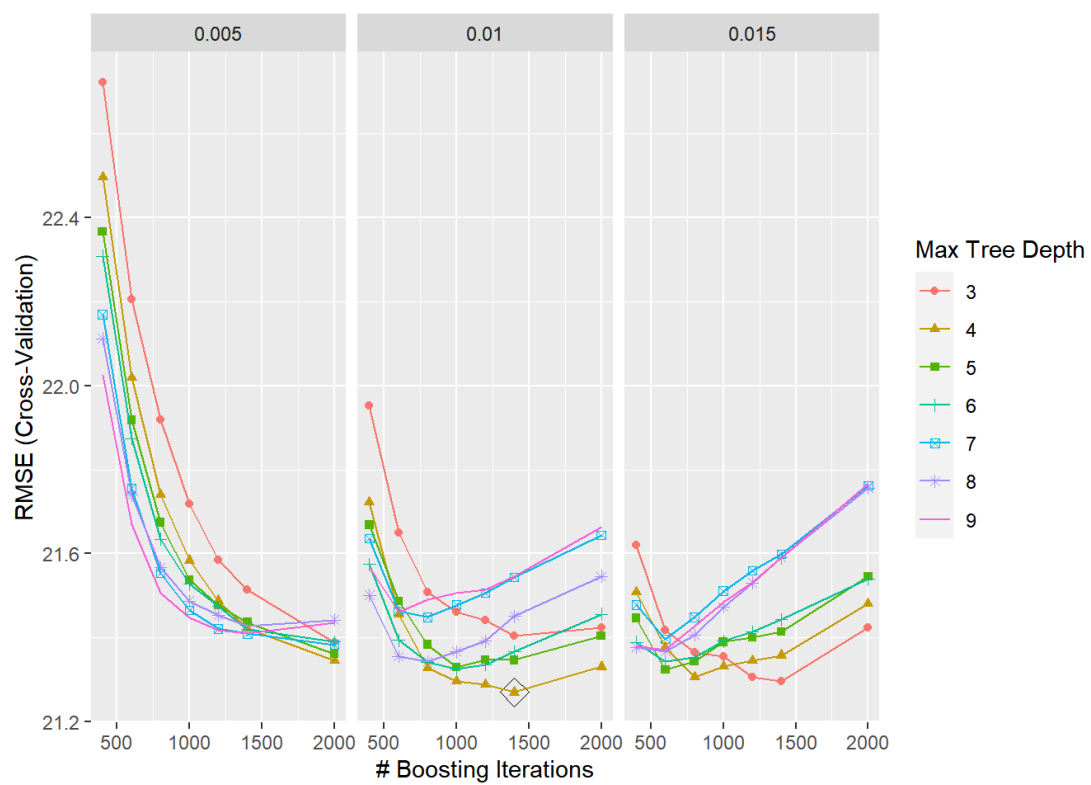
Sup.8 RMSE of regression trees with different complexity number



Sup.9 Random Forest tuning grid

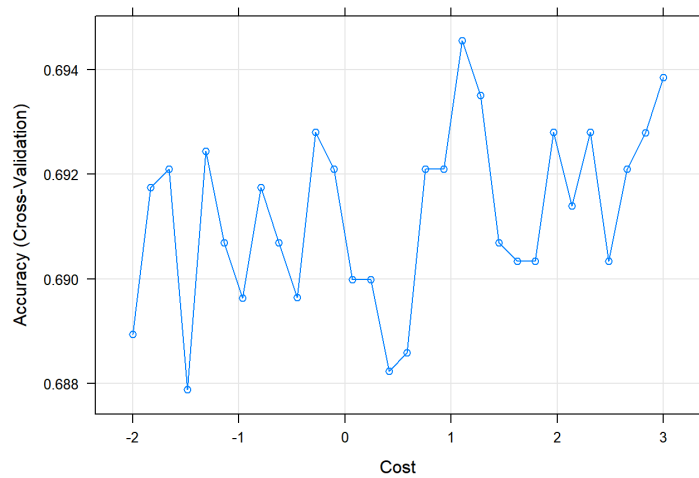


Sup.10 Boosting on regression tree tuning grid

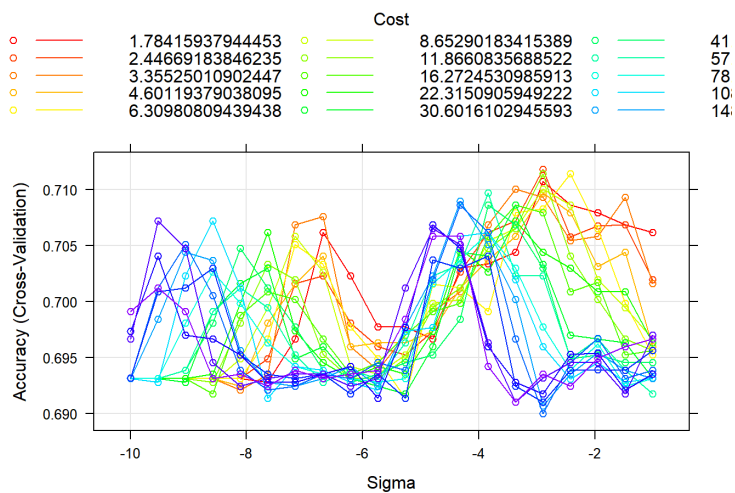


Sup.11 Comparison of SVM using different kernel

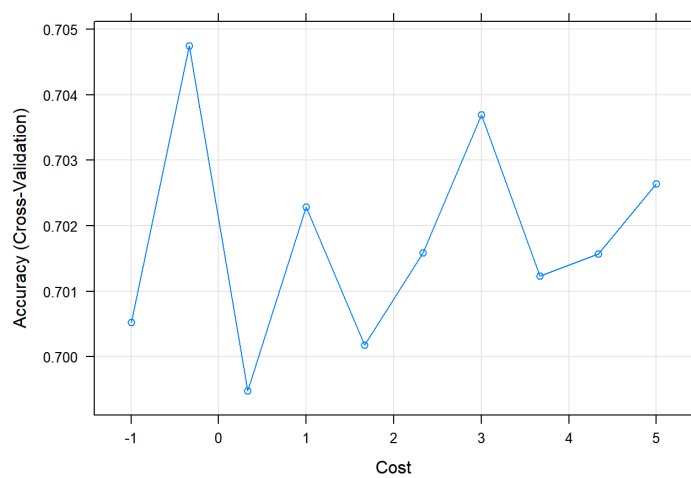
a. Linear kernel



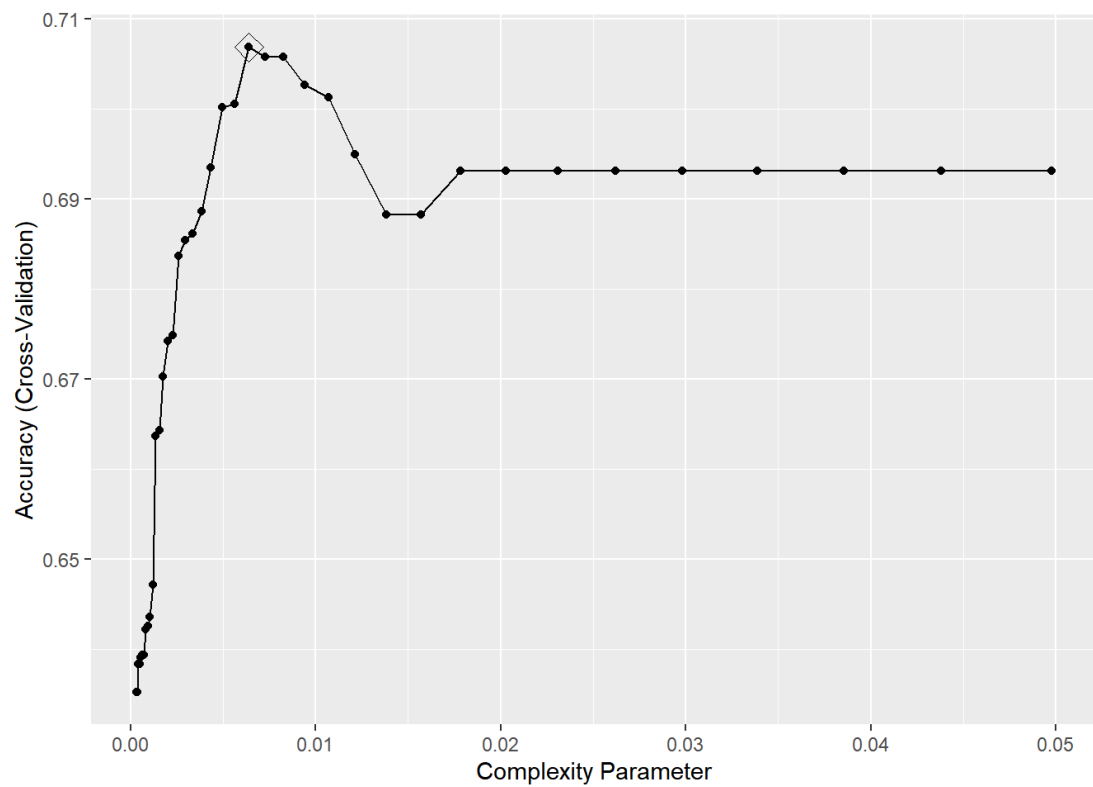
b. Radial kernel



c. Quadratic kernel



Sup.12 Accuracy of classification trees with different complexity number



Sup.13 tuning grid of the boosted classification tree

