

Secondary Analysis – Figures and outputs

Exploratory analysis for classification

Table 1: Data summary

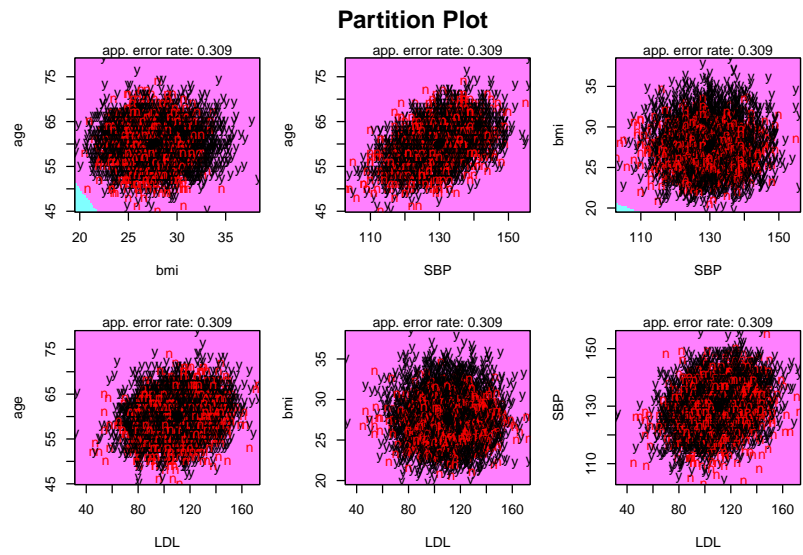
Name	Piped data
Number of rows	3603
Number of columns	17
Column type frequency:	
factor	9
numeric	8
Group variables	None

Variable type: factor

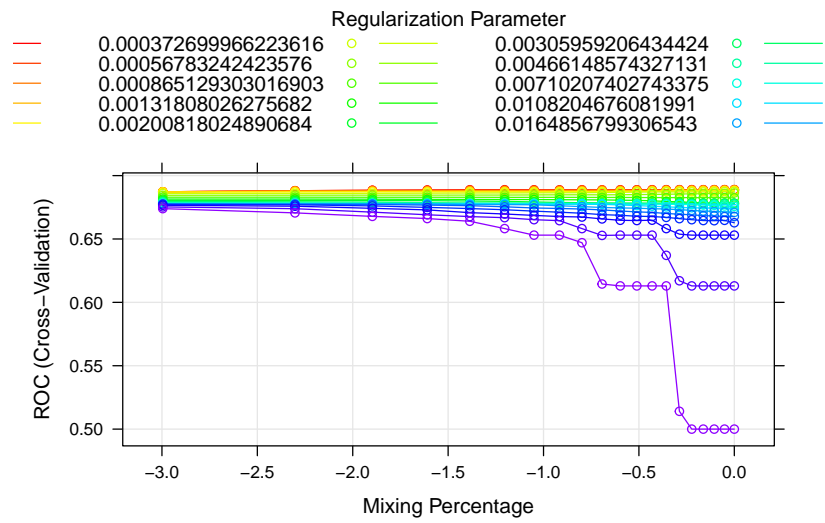
skim_variable	n_missing	complete_rate	ordered	n_unique	top_counts
gender	0	1	FALSE	2	0: 1867, 1: 1736
race	0	1	FALSE	4	1: 2350, 3: 720, 4: 358, 2: 175
smoking	0	1	FALSE	3	0: 2176, 1: 1072, 2: 355
hypertension	0	1	FALSE	2	0: 1886, 1: 1717
diabetes	0	1	FALSE	2	0: 3065, 1: 538
vaccine	0	1	FALSE	2	1: 2119, 0: 1484
severity	0	1	FALSE	2	0: 3252, 1: 351
study	0	1	FALSE	3	B: 2201, A: 718, C: 684
length_ind	0	1	FALSE	2	yes: 2491, no: 1112

Variable type: numeric

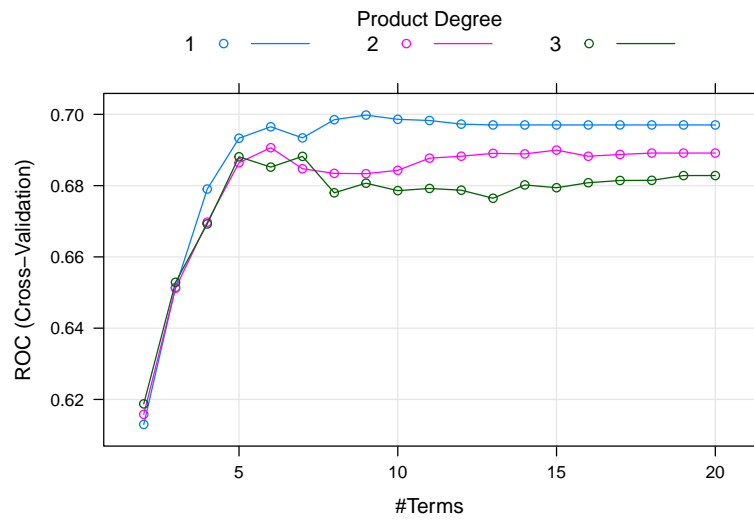
skim_variable	n_missing	complete_rate	mean	sd	p0	p25	p50	p75	p100	hist
id	0	1	4979.49	2845.35	2.0	2528.0	4987.0	7438.0	9999.0	
age	0	1	60.10	4.46	45.0	57.0	60.0	63.0	79.0	
height	0	1	170.02	5.93	148.1	166.1	170.0	173.9	189.1	
weight	0	1	79.91	7.08	57.1	75.0	79.9	84.7	104.2	
bmi	0	1	27.71	2.77	19.6	25.8	27.6	29.4	38.4	
SBP	0	1	130.01	7.88	103.0	125.0	130.0	135.0	156.0	
LDL	0	1	110.51	19.83	32.0	97.0	111.0	125.0	173.0	
recovery_time	0	1	42.98	29.46	2.0	28.0	39.0	50.0	365.0	



Penalized logistic regression

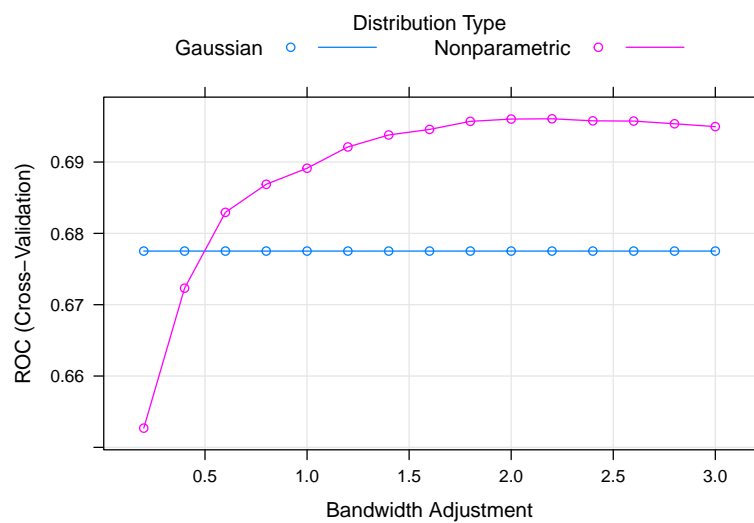


Multivariate adaptive regression splines classifier (MARS)

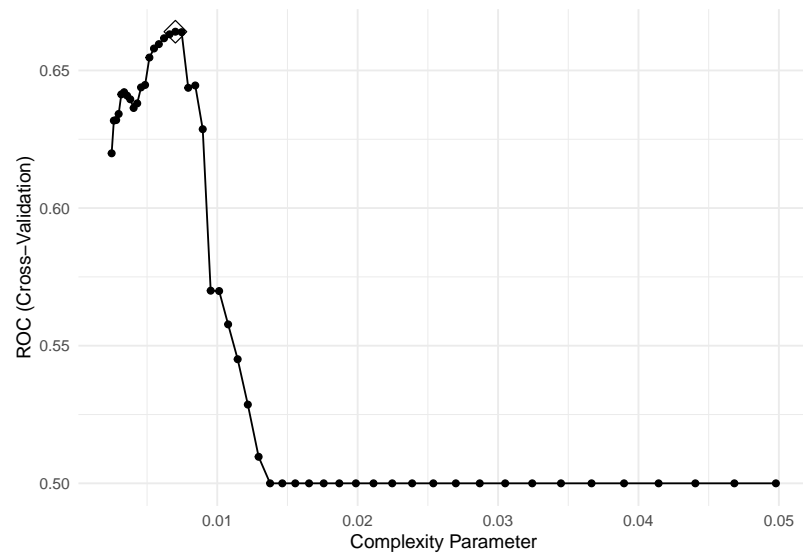


Quadratic discriminant analysis (QDA)

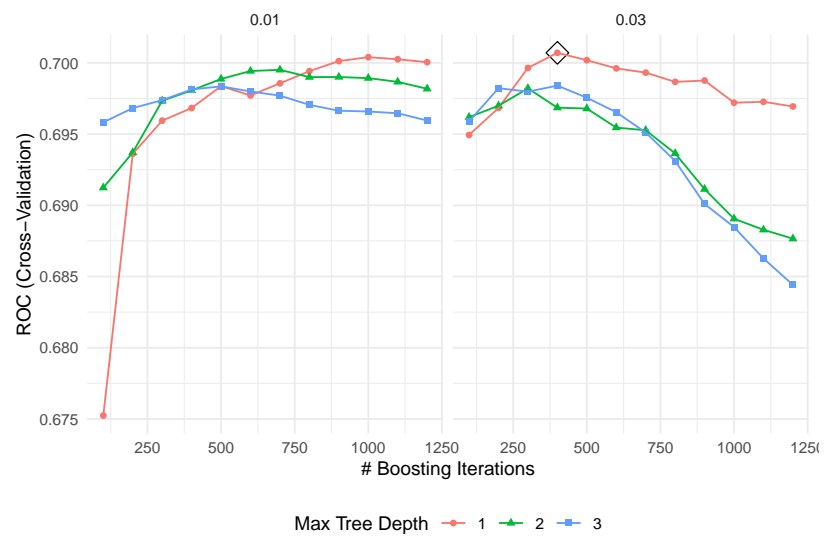
Naive Bayes Classifier



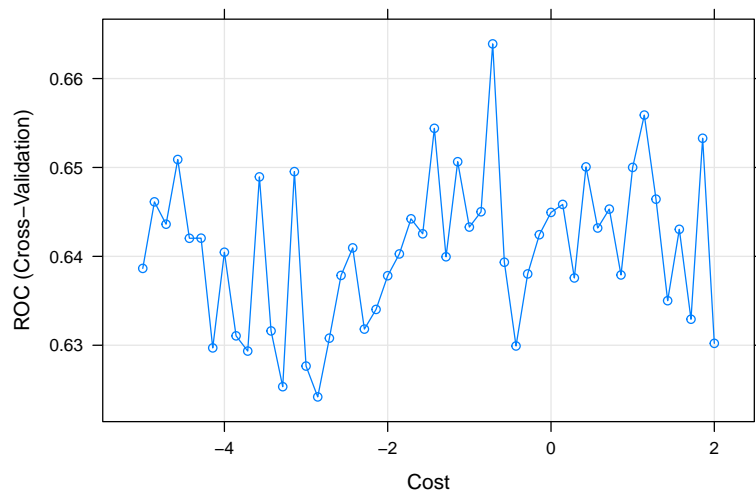
Classification Tree



Adaptive boosting classifier



Support vector classifier with linear kernel



Support vector classifier with radial kernel

