

# ProblemSet 10

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From the table we can see that neural model has highest f1 and gmean value. Because we targeting the maximum f1 and gmean value, the neural model might be the best model in this case.

Table 1: Optimal values

	f1	gmean	minsplit	minbucket	cp	lambda	alpha	size	decay	maxit	k	kernel	cost	gamma
tree	0.8892894	0.6314273	46	44	0.0159									
logistic	0.8633508	0.0000000				0.133	0.0501							
neural	0.9087688	0.7599325						10	0.359	1000				
bayes	0.8825952	0.7340489												
knn	0.8907731	0.7411231									29			
svm	0.8953264	0.6888767										radial	1	2