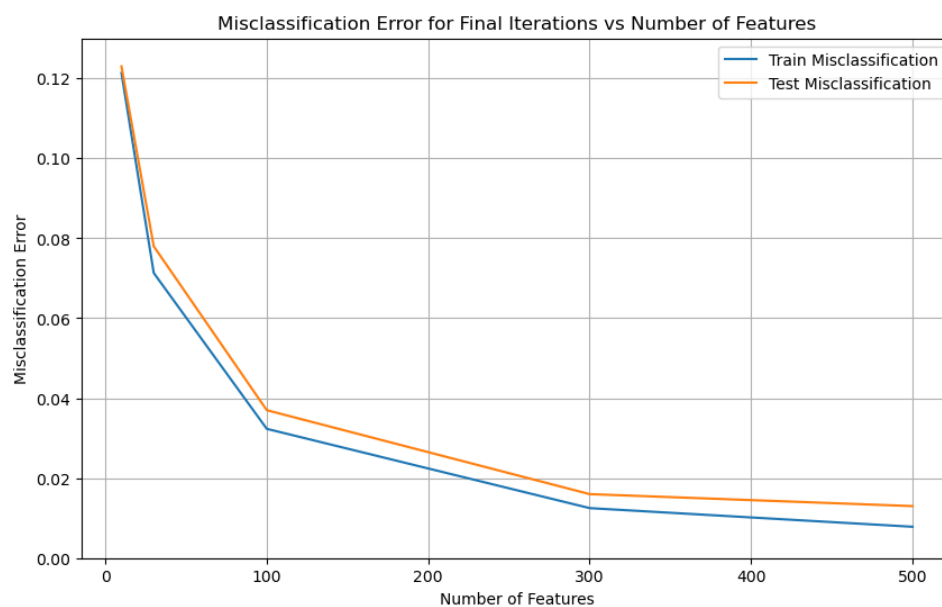
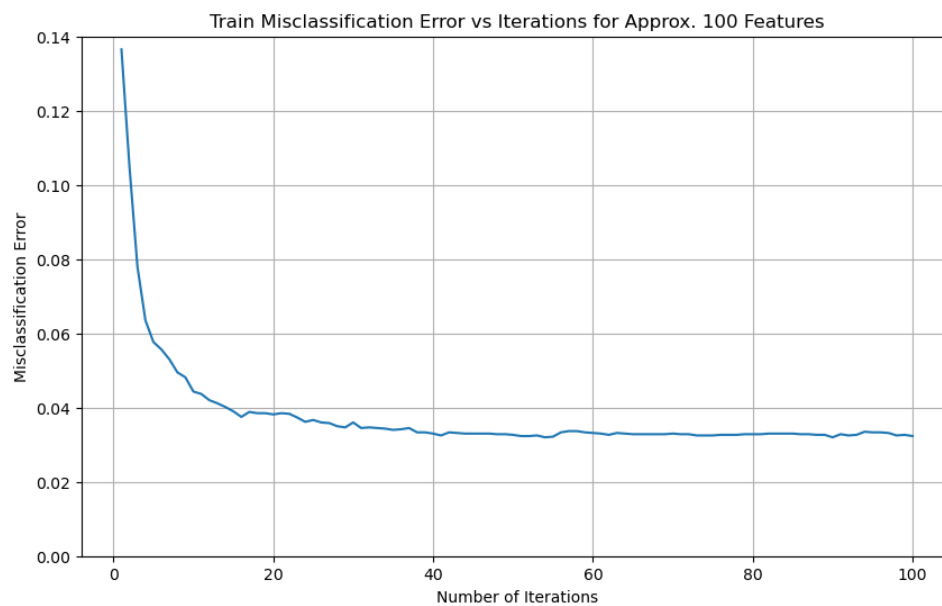
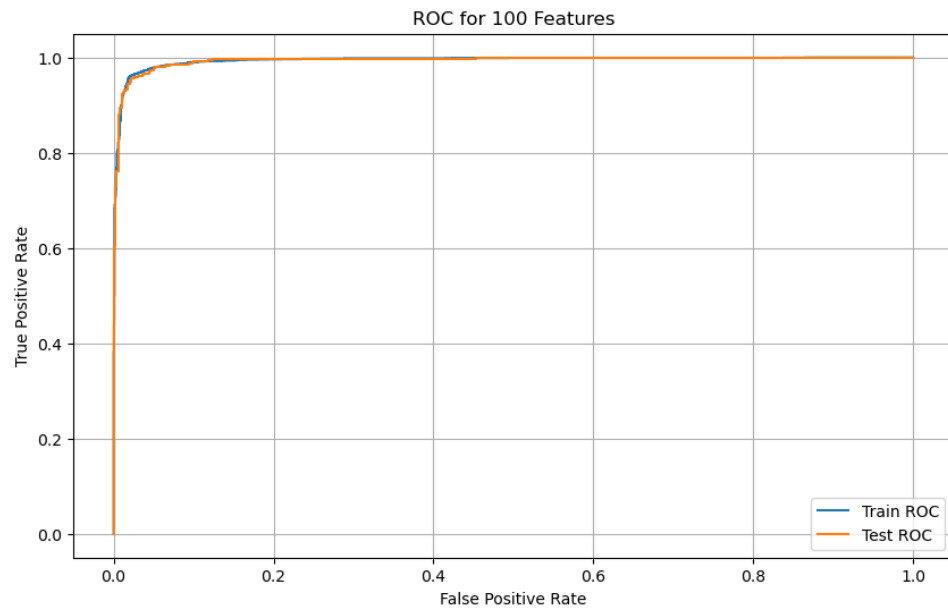


# Homework 4

Evan Stansell

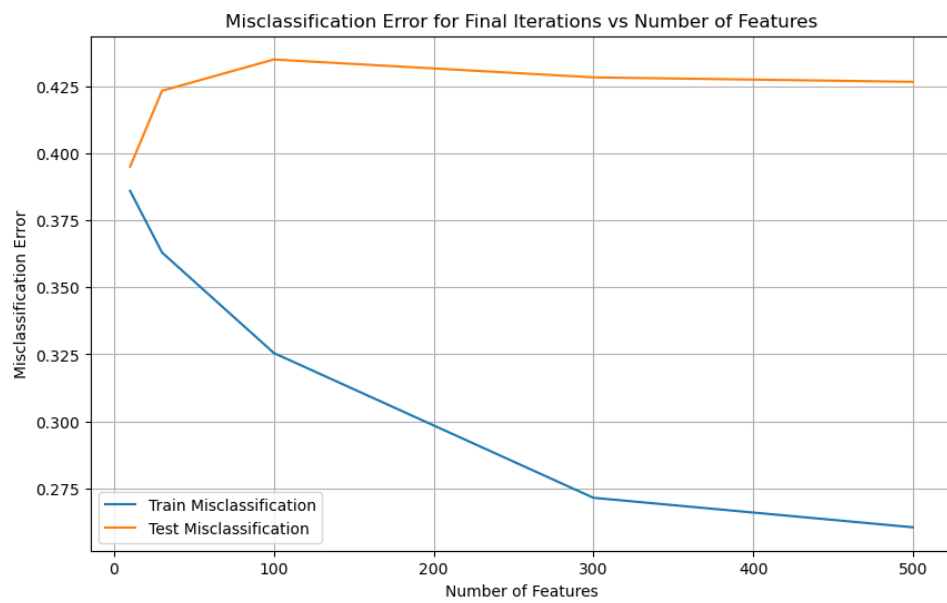
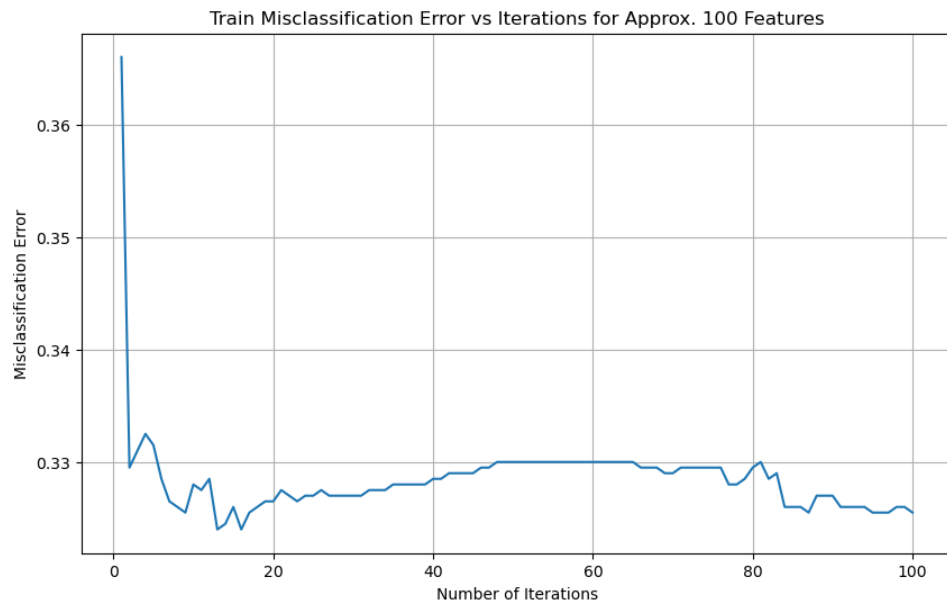
(a) Gisette dataset

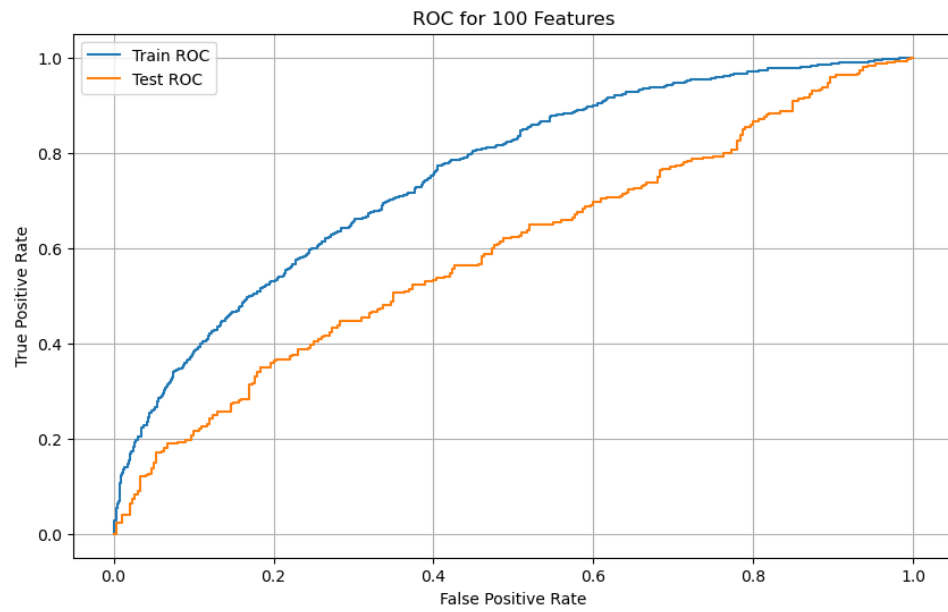




Lambda	Number of Features	Train Misclass	Test Misclass
0.19	10	0.121	0.123
0.133	30	0.071	0.078
0.088	98	0.032	0.037
0.053	299	0.012	0.016
0.0385	503	0.008	0.013

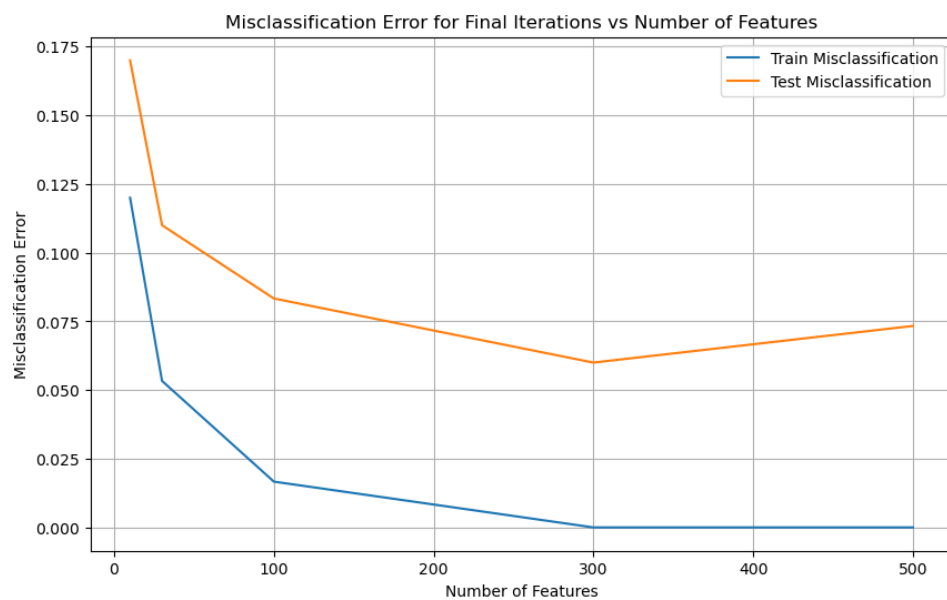
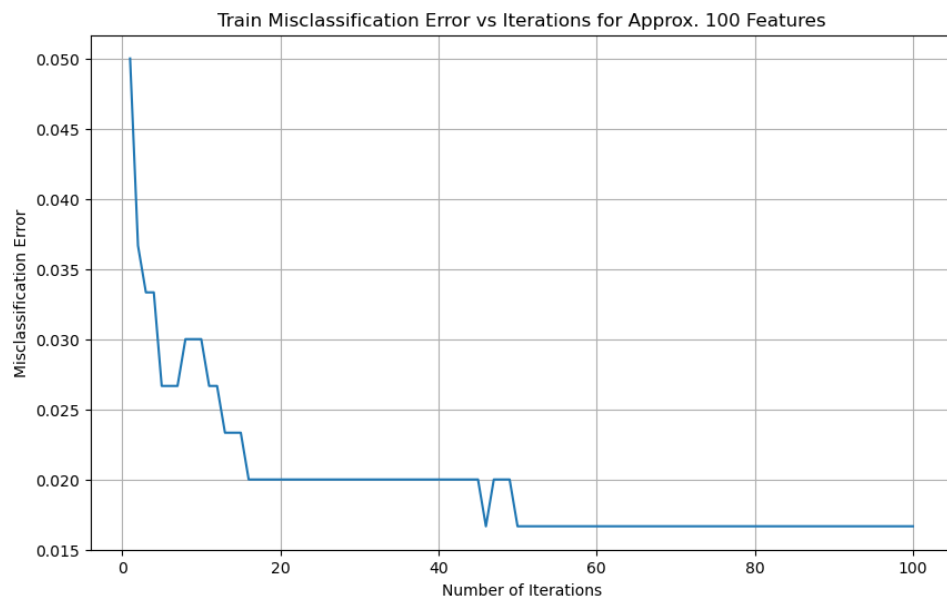
(b) Madelon dataset

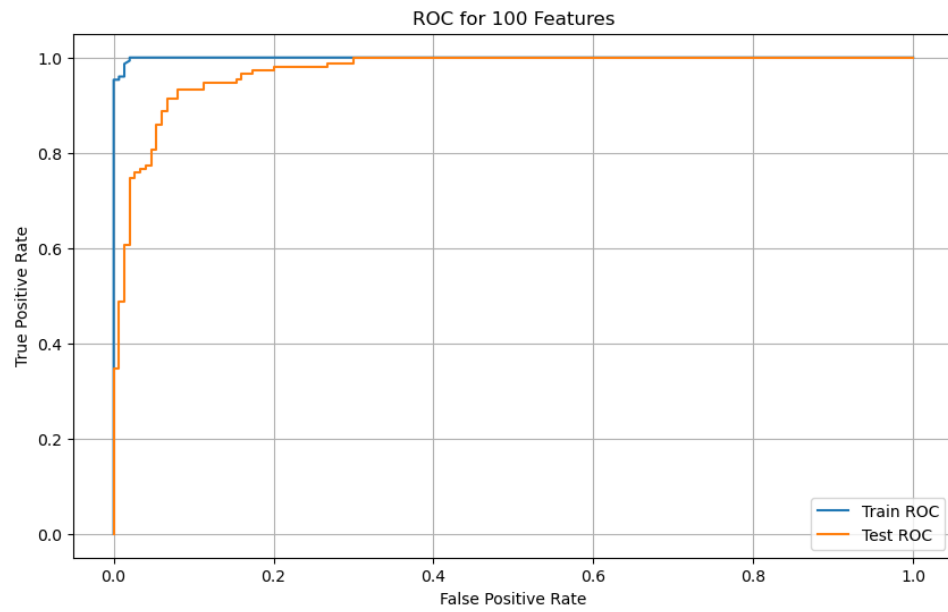




Lambda	Number of Features	Train Misclass	Test Misclass
0.0298	8	0.386	0.395
0.0242	31	0.363	0.423
0.017	101	0.326	0.435
0.00735	302	0.271	0.428
0.00002	501	0.260	0.427

(c) Dexter dataset





Lambda	Number of Features	Train Misclass	Test Misclass
0.14	11	0.120	0.170
0.099	29	0.053	0.110
0.071	101	0.017	0.083
0.0523	299	0.000	0.060
0.0466	500	0.000	0.073