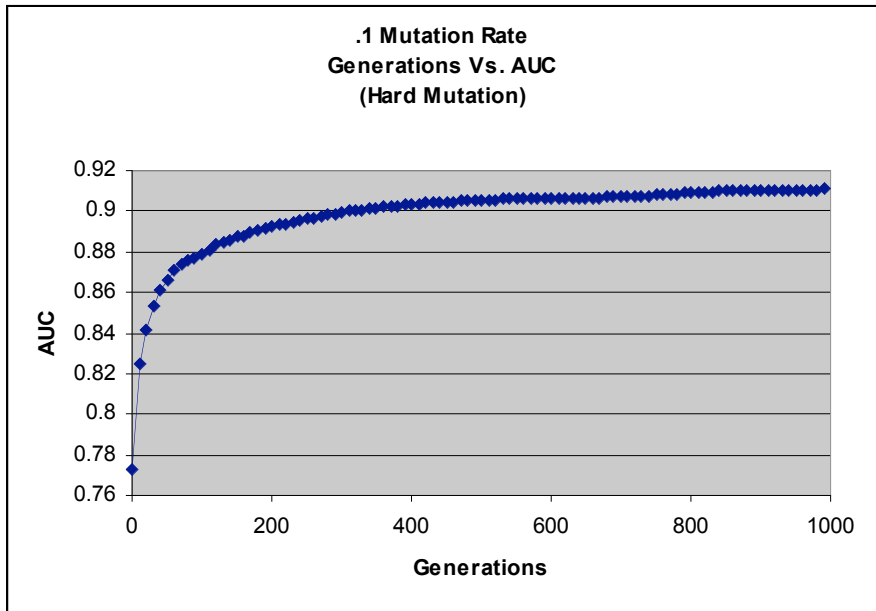
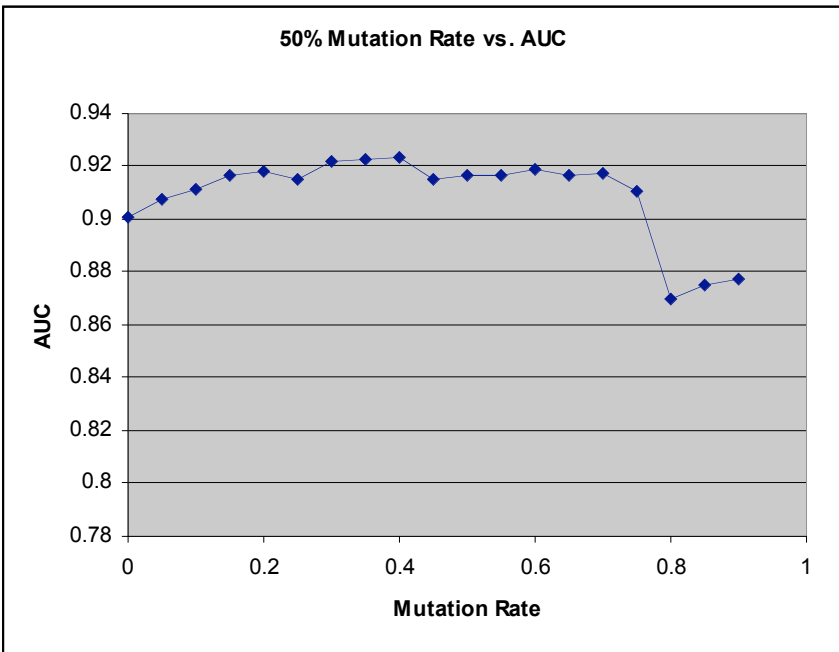
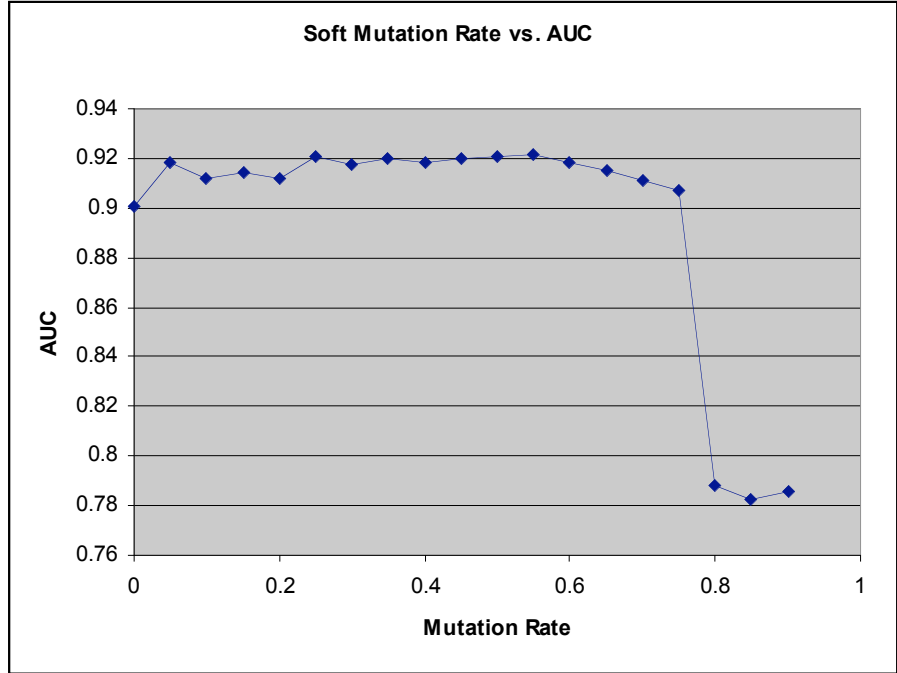
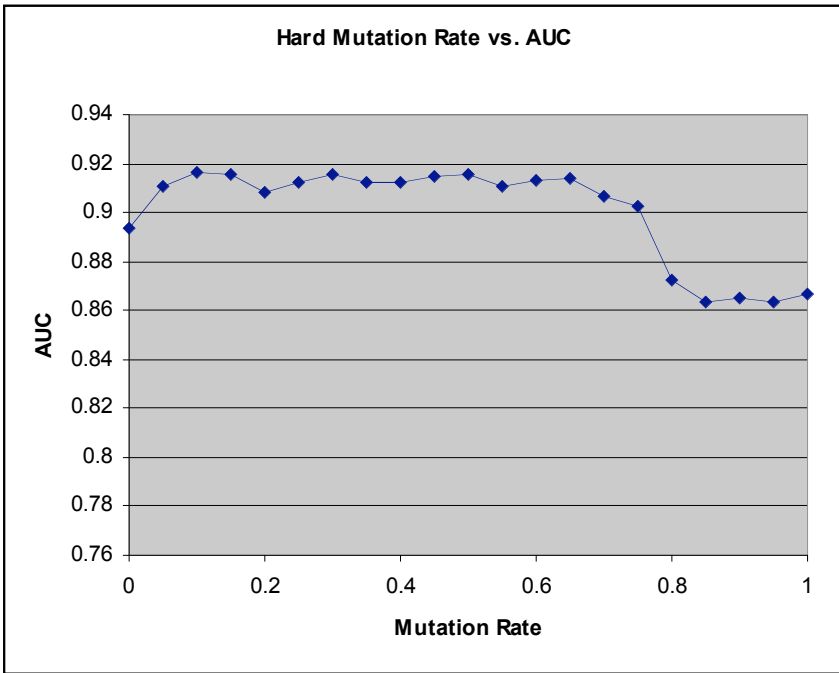
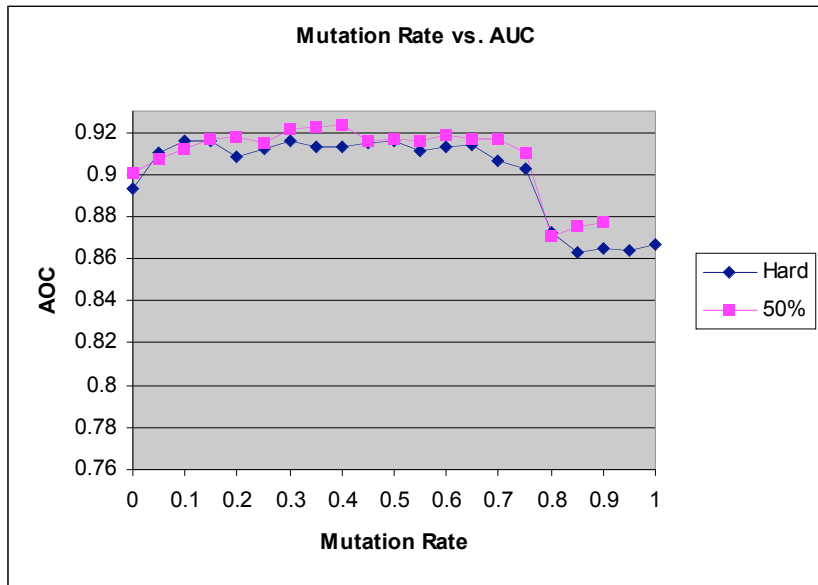
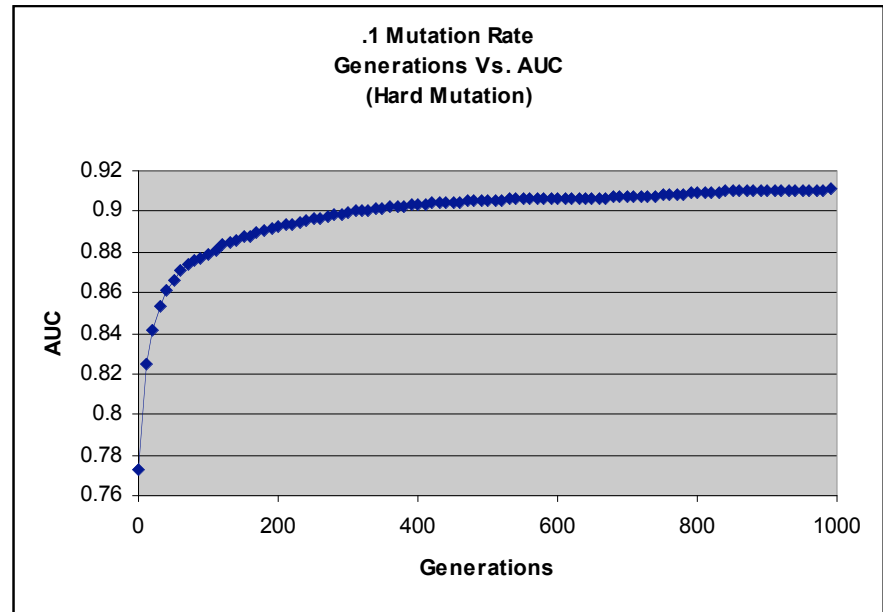
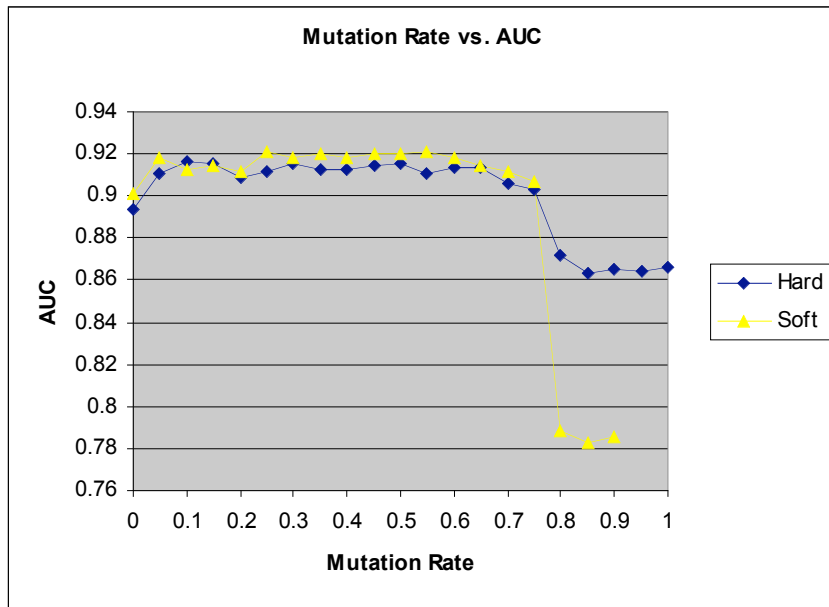
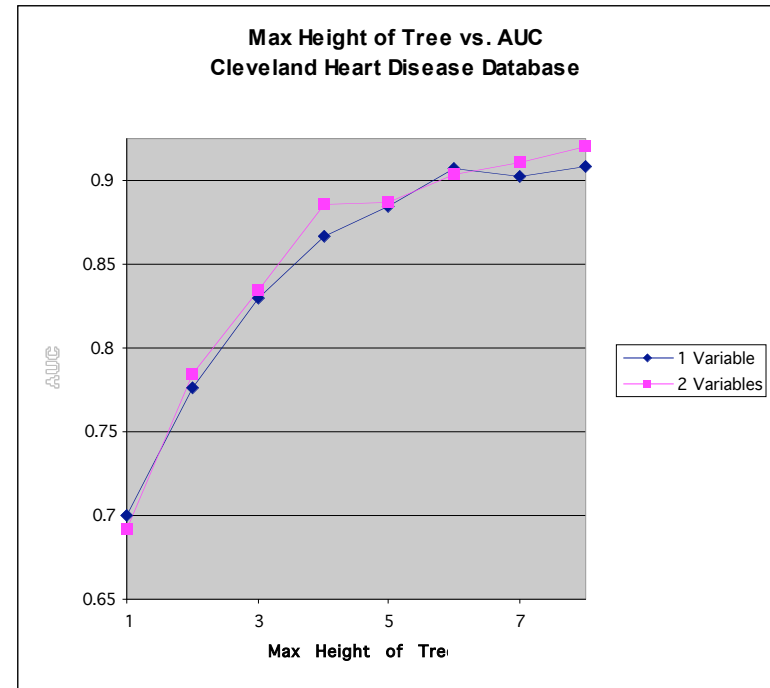
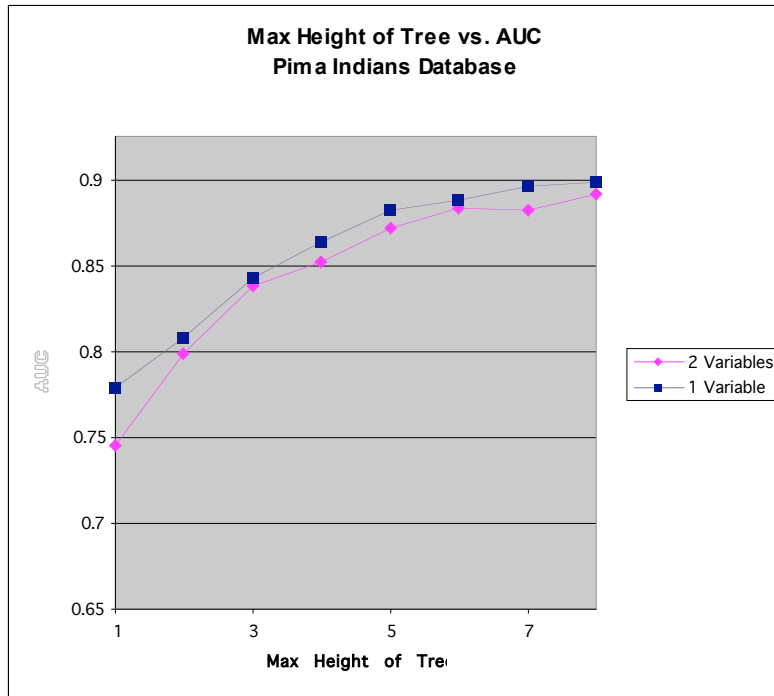


## 4.2 Mutation





### 4.3 Linear Decision Trees



1 Variable Diabetes		
Tree Ht.	AUC	Complexity
1	0.744954	3
2	0.798686	6.824156
3	0.837498	14.16068
4	0.851655	26.23671
5	0.871453	44.49465
6	0.883374	66.84841
7	0.882623	92.45921
8	0.891251	123.2843

2 Variables Diabetes		
Tree Ht.	AUC	Complexity
1	0.77894	2.987179
2	0.808128	6.893609
3	0.842695	13.7363
4	0.86328	26.33367
5	0.881719	44.16487
6	0.88753	60.74617
7	0.895646	92.13462
8	0.89847	109.388

1 Variable Heart Disease		
Tree Ht.	AUC	Complexity
1	0.700264	3
2	0.775642	7
3	0.830309	14.6660637
4	0.866923	27.4528623
5	0.883966	48.5573235
6	0.907355	65.6373208
7	0.902115	93.4424951
8	0.908713	81.3251634

2 Variable Heart Disease		
Tree Ht.	AUC	Complexity
1	0.691268	3
2	0.78406	7
3	0.835011	14.54195011
4	0.886134	26.01516021
5	0.886813	45.98497229
6	0.903394	62.2209047
7	0.910526	80.0959596
8	0.919873	91.2788671