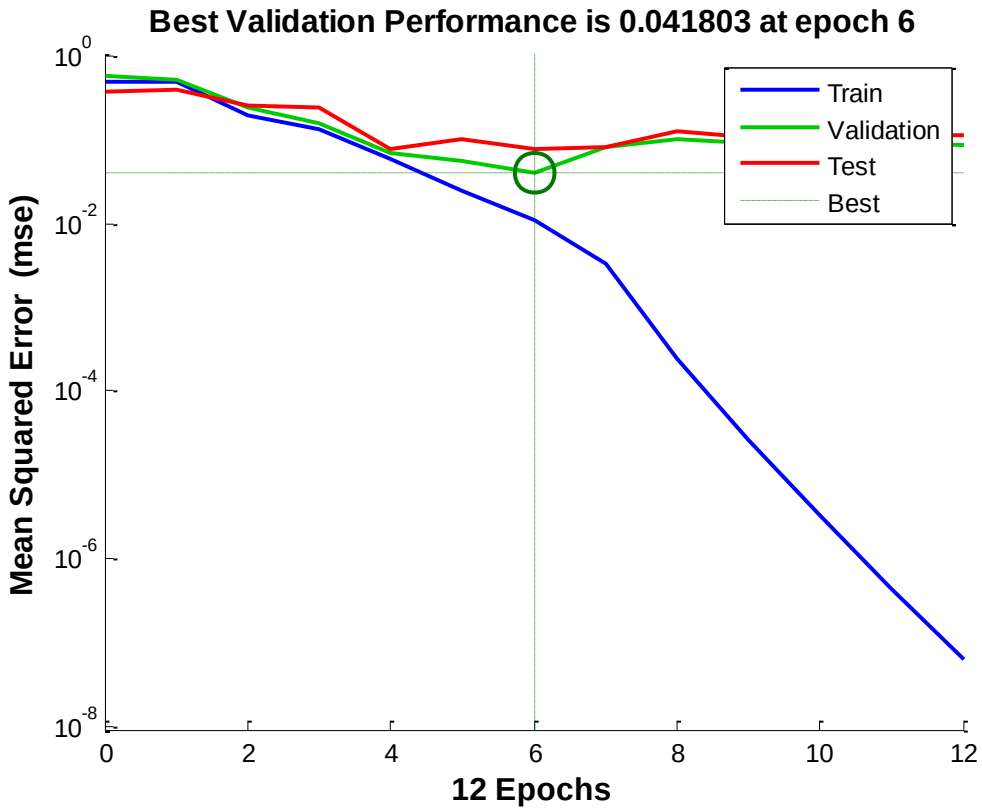


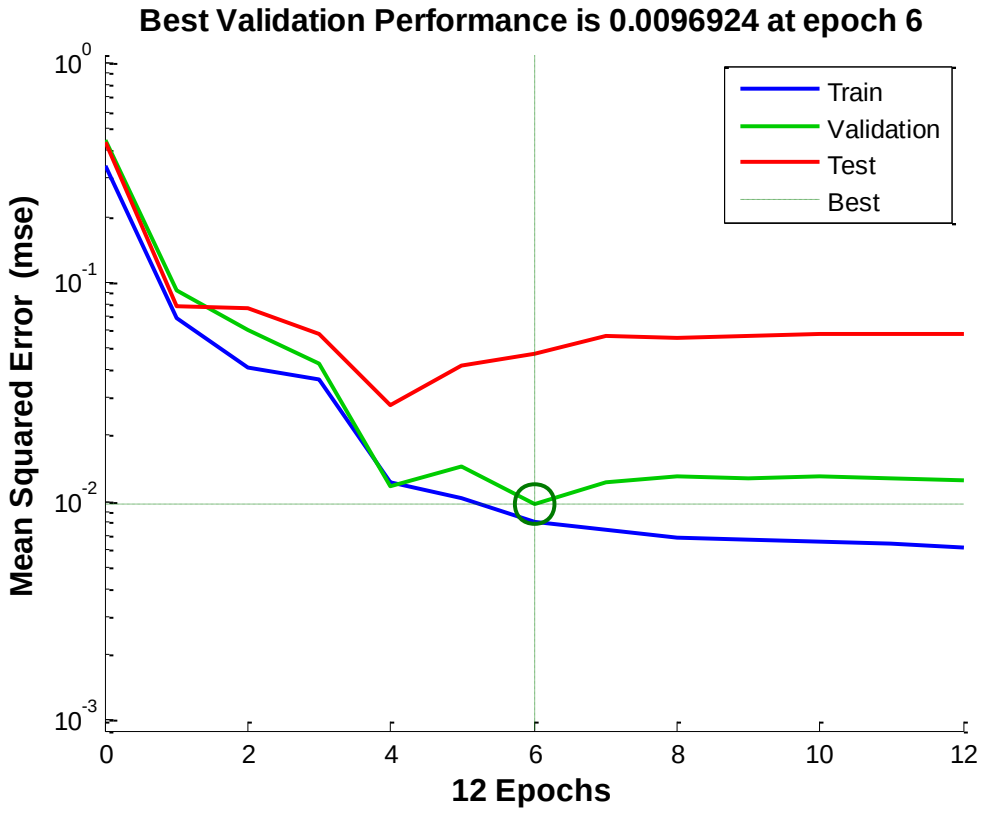
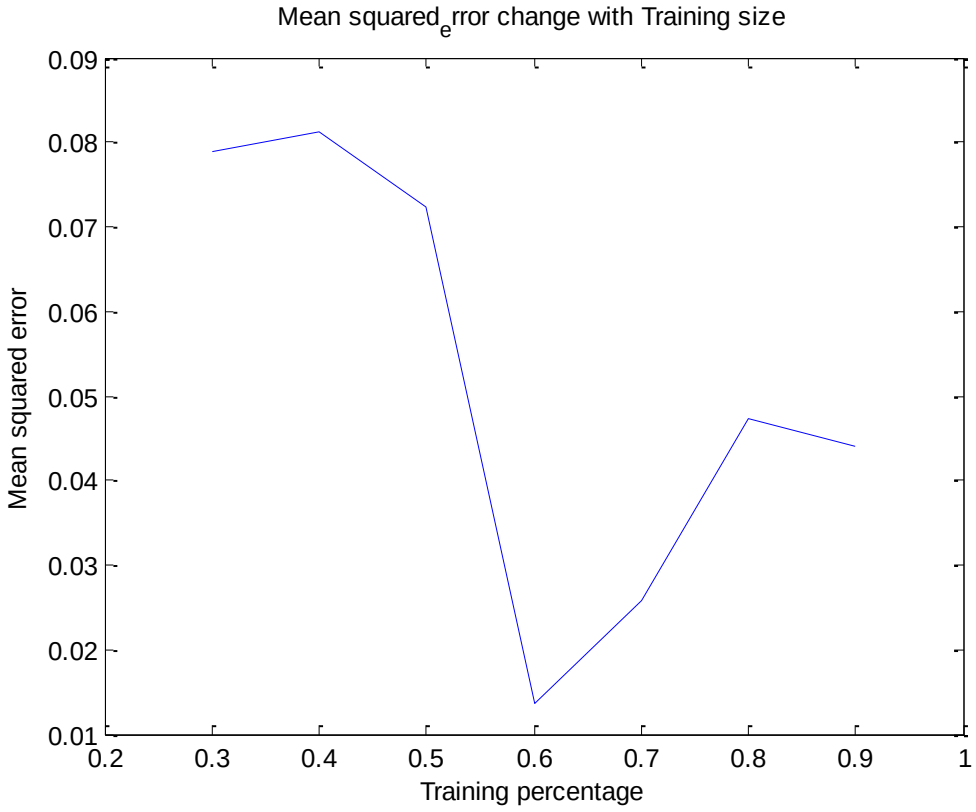


Table shows the experiment did to test the effect of different parameters of the models

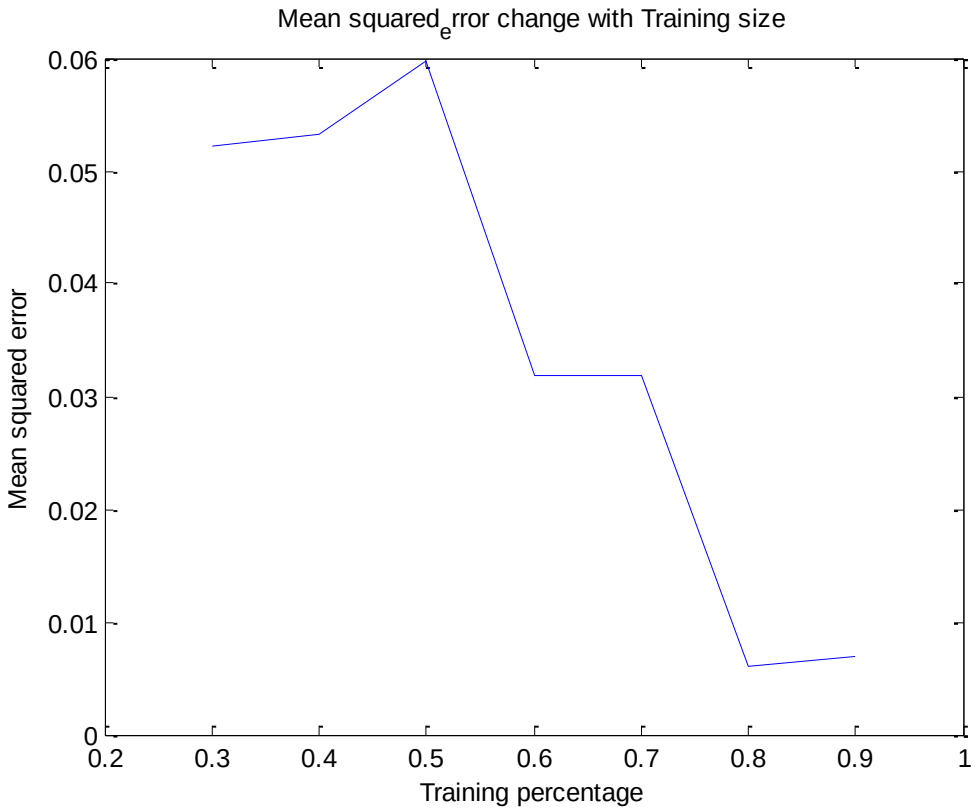
No	Performance	Number of	Training algorithm	Epoch

		hidden layer		
1	0.041803	5	Levenberg-Marqudt	12
2	2.1172e-13	5	Bayesian Regularization	82
3	0.0261	5	Scaled Conjugate Gradient	55
4	0.016083	7	Levenberg-Marquardt	11
5	0.015002	9	Levenberg-Marquardt	11
6	0.056549	11	Levenberg-Marquardt	11
7	0.0072967	13	Levenberg-Marquardt	14
8	2.1286e-13	3	Levenberg-Marquardt	22
9	0.058206	1	Levenberg-Marquardt	59
10	0.12803	15	Levenberg-Marquardt	11

Neural Network accuracy for Iris example



Neural Network accuracy for Wine example



Index of the experiment	Performance	Number of hidden layer	Training algorithm	Epoch
1	0.0087442	5	Levenberg-Marqudt	13
2	0.032355	5	Bayesian Regularization	785
3	0.031231	5	Scaled Conjugate Gradient	29
4	0.0091011	7	Levenberg-Marquardt	18
5	0.044506	9	Levenberg-Marquardt	10
6	0.027032	11	Levenberg-Marquardt	9
7	0.0096924	13	Levenberg-Marquardt	12
8	0.0063721	3	Levenberg-Marquardt	11
9	0.033093	1	Levenberg-Marquardt	13
10	0.049926	15	Levenberg-Marquardt	16

Support Vector Machine, accuracy for the cross validation test (winedata)

CV	Accuracy(1 is 100%)									
3	0.8333	0.9831	1							
4	0.9111	0.9778	0.9773	1						
5	0.8649	1	0.9444	1	1					
6	0.8666	0.9333	0.9667	0.9667	1	1				
7	0.9259	0.8077	0.9600	0.9600	1	1	1			
8	0.9130	0.9130	1	0.9545	0.9545	1	1	1		

9	0.9048	0.9048	1	0.9500	0.9474	1	1	1	1	
10	0.8947	0.8889	1	1	0.9444	0.9444	1	1	1	1

Support Vector Machine, accuracy for the cross validation test (irisdata)

CV	Accuracy(1 is 100%)									
3	1	0.96	1							
4	0.9744	0.9474	0.9722	1						
5	0.9667	1	0.9667	0.9667	1					
6	0.9630	1	0.9167	0.9583	1	1				
7	0.9565	1	0.9524	1	0.9048	1	1			
8	0.9524	1	1	0.8889	1	0.9444	1	1		
9	1	1	1	0.8889	1	0.9333	1	1	1	
10	1	1	1	1	0.8666	1	0.9333	1	1	1

Decision tree (irisdata)

CV	Accuracy(1 is 100%)									
3	1	0.96	1							
4	0.9744	0.9474	0.9722	1						
5	0.9667	1	0.9667	0.9667	1					
6	0.9630	1	0.9167	0.9583	1	1				
7	0.9565	1	0.9524	1	0.9048	1	1			
8	0.9524	1	1	0.8889	1	0.9444	1	1		
9	1	1	1	0.8889	1	0.9333	1	1	1	
10	1	1	1	1	0.8666	1	0.9333	1	1	1

Decision tree(winedata)

CV	Accuracy(1 is 100%)									
3	0.7833	0.8305	0.9310							
4	0.8222	0.8667	0.9091	0.8837						
5	0.7838	0.9167	0.9167	0.9118	0.8529					
6	0.9333	0.9	0.8	0.9	0.9310	0.8214				
7	0.9259	0.8077	0.8	0.92	0.92	0.92	0.7917			
8	0.9130	0.7826	0.9091	0.7729	0.8636	0.9545	0.9545	0.8095		
9	0.9048	0.7619	0.9524	0.7	0.9474	0.8947	0.9474	0.9474	1	
10	0.8947	0.8333	0.7778	0.8333	0.9444	0.8333	0.9444	0.9444	0.9375	1

k-nearest-neighbors(irisdata)

CV	Accuracy(1 is 100%)									
3	0.9608	0.9412	1							
4	0.9487	1	0.9444	0.9722						
5	0.9333	1	0.9333	0.9667	1					
6	0.9259	1	1	0.9167	1	1				
7	0.9167	1	1	0.9048	0.9524	0.9524	1			

8	0.9048	1	1	1	0.9444	0.9444	0.9444	1		
9	0.9444	0.9444	1	1	0.9444	0.9333	1	1	1	
10	0.9333	0.9333	1	1	1	0.9333	0.9333	1	1	1

k-nearest-neighbors(winedata)

CV	Accuracy(1 is 100%)									
3	0.9608	0.9400	1							
4	0.9487	1	0.9444	0.9722						
5	0.9333	1	0.9333	0.9667	1					
6	0.9259	1	1	0.9167	1	1				
7	0.9130	1	1	0.9048	0.9524	0.9524	1			
8	0.9048	1	1	1	0.9444	0.9444	0.9444	1		
9	0.9444	0.9444	1	1	0.9412	0.9333	1	1	1	1
10	0.9333	0.9333	1	1	1	0.9333	0.9333	1	1	1

Boosting (irisdata)

CV	Accuracy(1 is 100%)									
3	0.9804	0.92	0.9583							
4	0.9744	0.9211	0.9444	0.9722						
5	0.9667	0.9667	0.9	0.9333	1					
6	0.9630	1	0.8750	0.9167	0.9167	1				
7	0.9565	1	0.9048	0.9524	0.9048	0.9524	1			
8	0.9524	0.9500	0.9444	0.8333	0.9444	0.9444	0.9444	1		
9	1	0.9444	1	0.8333	0.9412	0.9333	0.9333	1	1	
10	1	0.9333	1	0.9333	0.8667	0.9333	0.9333	0.9333	1	1

Boosting (winedata)

CV	Accuracy(1 is 100%)									
3	0.9167	0.9153	0.9483							
4	0.8667	0.9556	0.9773	0.9167						
5	0.9189	0.9722	1	0.9706	1					
6	0.9333	0.9667	0.9333	1	0.9655	1				
7	1	0.9615	0.92	1	1	0.92	1			
8	1	0.9130	0.9545	1	1	1	1	1		
9	1	0.9048	1	0.95	1	1	1	0.9474	1	1
10	1	0.9444	1	0.8889	1	1	1	1	0.9375	1