

SGD						
Epoches	w	t	beta	overall	training time	
1	0.60614	0.728225	0.273687291	0.53602	9.3333252	
2	0.537158	0.010215	0.195189647	0.24752	19.6473019	
5	0.521522	0.676156	0.136404612	0.44469	50.1611658	
10	0.546745	0.153906	0.095304414	0.26532	98.454093	
20	0.499547	0.178716	0.241286876	0.30652	196.0749034	
30	0.565303	0.481736	0.16680693	0.40462	284.3656852	
50	0.468067	0.744258	0.163351239	0.45856	452.7361426	

SGD with gamma_n decayed						
Epoches	w	t	beta	overall	training time	
1	0.060286	0.028369	0.040626915	0.04309	9.6457014	
2	0.075889	0.05648	0.011416728	0.04793	18.857489	
5	0.083291	0.048317	0.044151757	0.05859	45.8980195	
10	0.075628	0.123348	0.028876164	0.07595	95.1072255	
20	0.082017	0.127219	0.025648754	0.0783	232.7508287	
30	0.064784	0.053344	0.03296617	0.05036	324.9480153	
50	0.064327	0.014579	0.038502974	0.03914	521.0642649	

ASGD with gamma_n decayed						
Epoches	w	t	beta	overall	training time	
1	0.045245	0.064369	0.009784338	0.0398	9.6457014	
2	0.044765	0.058129	0.019710774	0.04087	18.857489	
5	0.044513	0.077618	0.09482906	0.07232	45.8980195	
10	0.04803	0.057314	0.020287092	0.04188	95.1072255	
20	0.050978	0.061093	0.019816488	0.04396	232.7508287	
30	0.049563	0.060916	0.019148668	0.04321	324.9480153	
50	0.047128	0.057966	0.018818047	0.0413	521.0642649	

Batch SGD						
Epoches	w	t	beta	overall	training time	
1	0.05355577	0.045678081	0.028518	0.042584	0.1416787	
2	0.041311624	0.012815092	0.021274	0.025134	0.2503323	
5	0.051235597	0.02765044	0.013338	0.030741	0.6718789	
10	0.064952874	0.039133281	0.026665	0.043584	1.2208895	
20	0.047311392	0.055365312	0.04015	0.047609	2.4829876	
30	0.053150234	0.010168958	0.038961	0.034093	3.7565146	
50	0.046644138	0.038369516	0.014064	0.033026	6.5684521	

Batch SGD with gamma_n decayed						
Epoches	w	t	beta	overall	training time	
1	0.325615414	0.042762602	0.390445	0.252941	0.1520523	
2	0.161053346	0.061418642	0.15053	0.124334	0.3063951	
5	0.030722476	0.013924609	0.025862	0.023503	0.7744487	
10	0.015212755	0.009314168	0.006667	0.010398	1.5824177	
20	0.016251554	0.005469714	0.01053	0.01075	3.1191398	
30	0.016920479	0.010562736	0.008106	0.011863	3.73341	
50	0.016478227	0.005390627	0.005485	0.009118	6.2214178	

Batch ASGD with gamma_n decayed						
Epoches	w	t	beta	overall	training time	
1	0.440955496	0.03045396	0.571561	0.347657	0.1520523	
2	0.317493132	0.149950352	0.309234	0.258893	0.3063951	
5	0.173151489	0.068903273	0.236488	0.159514	0.7744487	
10	0.070297864	0.036918572	0.064212	0.057143	1.5824177	
20	0.039935517	0.016705293	0.026844	0.027828	3.1191398	
30	0.022734145	0.00980124	0.018848	0.017128	3.73341	
50	0.017021331	0.003461593	0.012884	0.011122	6.2214178	