Distracted Driving Project Outline

Joseph Blubaugh 16 January 2017

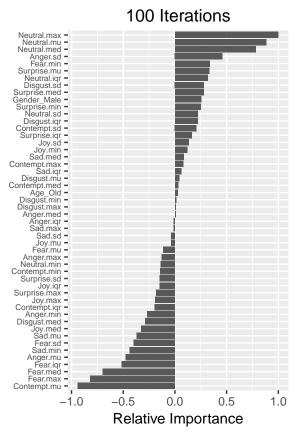
Model Training Update

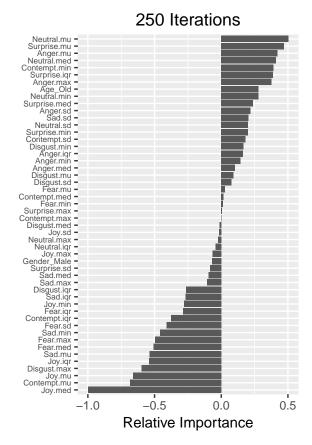
Model	Data Processing	Data Split	MaxItr	Converged	Size	Decay	Training	Testing
Model 1:	Original	365 Split	100	No	50	. 20	.760	.676
Model 2:	Original	Entire Sim	100	No	50	.20	.754	.754
Model 3:	Differencing	365 Split	100	Yes	10	.00	.518	.516
Model 4:	Differencing	Entire Sim	100	Yes	25	. 10	.572	.571
Model 5:	Moving Avg	365 Split	100	Yes	10	.00	.503	.502
Model 6:	Moving Avg	Entire Sim	100	Yes	10	.00	.528	.528
Model 7:	1/2 Sec Cut	365 Split	100	Yes	50	. 10	.820	.698
Model 8:	1/2 Sec Cut	Entire Sim	100	Yes	50	.20	.788	.779
Model 9:	1/2 Sec Diff	365 Split	100	Yes	50	. 10	.716	.647
Model 10:	1/2 Sec Diff	Entire Sim	100	Yes	50	.20	.682	.622
Model 11:	1/2 Sec Cut Stat	365 Split	100	Yes	50	.10	.846	.716
Model 12:	1/2 Sec Cut Stat	Entire Sim	100	Yes	50	.20	.820	.803

Continued Further Training Best Models

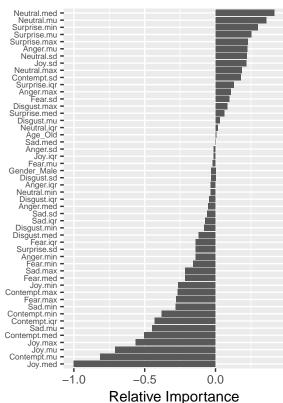
Model	Data Processing	Data Split	MaxItr	Converged	Size	Decay	Training	Testing
Model 2:	Original	Entire Sim	250	No	50	. 10	.782	.781
Model 2:	Original	Entire Sim	500	No	50	.00	.796	.794
Model 8:	1/2 Sec Cut	Entire Sim	250	Yes	50	. 10	.816	.804
Model 8:	1/2 Sec Cut	Entire Sim	500	Yes	50	. 10	.828	.810
Model 12:	1/2 Sec Cut Stat	Entire Sim	250	Yes	50	.10	.858	.823
Model 12:	1/2 Sec Cut Stat	Entire Sim	500	Yes	50	.20	.864	.823

Variable Importance

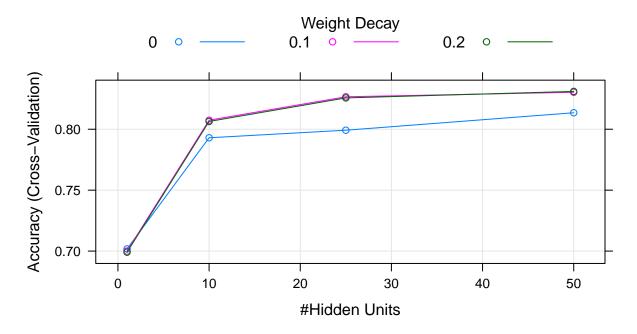








Training Plot



Data

Model 08 Data									
[6]	"Anger" "Contempt" "l		"Gender_Male" "T "Disgust" "F "Neutral"	Cexting" "Time" Cear" "Joy"					
Model 12 Data									
[5] [9] [13] [17] [21] [25]	"Subject" "Time" "Anger.max" "Contempt.sd" "Contempt.iqr" "Disgust.max" "Fear.sd" "Fear.iqr" "Joy.max" "Sad.sd" "Sad.iqr"	"Disgust.mu" "Disgust.med" "Fear.min" "Joy.mu" "Joy.med" "Sad.min"	"Gender_Male" "Anger.sd" "Anger.iqr" "Contempt.max" "Disgust.sd" "Disgust.iqr" "Fear.max" "Joy.sd" "Joy.iqr" "Sad.max" "Surprise.sd"	"Disgust.min" "Fear.mu" "Fear.med" "Joy.min" "Sad.mu" "Sad.med"					
[45] [49]	_	_	"Surprise.iqr" "Neutral.max"	-					

Demographic Effects (Model 08)

Variable	Neutral	Surprise	Anger	Disgust	Fear	Sad	Joy	Conte
Age		**	***	***	***		***	*
Gender	***	***			**		***	
Age*Gender	***		***	*				***
Emotion*Age		**		***	***	***	***	**
Emotion*Gende	er ***				***	***	*	
Emotion*Age*Gende*			*	***	***	***		**

Significance: [. p-value < .1] [* p-value < .05] [** p-value < .01] [*** p-value < .001]