Results.

Accuracy.

TABLE 7.1: Accuracy in Percentage

		Train				Test			
		Valence	Arousal	Control	Prediction	Valence	Arousal	Control	Prediction
r	rf	88.44	88.88	88.05	85.16	82.76	85.50	86.08	80.87
	xgb	89.97	86.61	90.33	86.42	**85.80**	85.70	**87.73**	83.51
b	rf	79.01	79.10	79.10	73.20	67.87	68.15	70.17	62.87
	xgb	82.47	80.85	80.58	77.21	71.27	70.21	72.54	66.95
s	rf	88.71	89.60	89.04	85.54	81.59	83.85	86.01	78.57
	xgb	**90.92**	**92.33**	**91.67**	**90.55**	84.68	**87.56**	86.84	**85.60**
b_s	rf	88.02	90.27	89.13	85.87	80.29	84.50	85.64	79.23
	xgb	**90.92**	**92.33**	**91.67**	**90.55**	84.68	**87.56**	86.84	**85.60**
a_r	rf	72.66	76.59	76.65	67.72	64.35	70.62	72.75	62.63
	xgb	73.95	76.81	79.85	74.13	69.32	72.61	76.86	70.93
a_b	rf	67.31	68.02	67.33	63.16	56.56	59.72	60.00	53.38
	xgb	64.36	65.87	66.45	62.40	55.54	58.18	59.44	54.20
a_s	rf	66.28	67.70	67.87	66.05	58.00	61.19	60.75	57.35
	xgb	65.20	66.93	67.96	64.44	58.48	61.23	61.40	56.91
a_b_s	rf	66.27	68.43	67.67	66.60	57.32	62.11	60.37	57.56
	xgb	65.20	66.94	67.96	64.44	58.48	61.23	61.40	56.91

Results.

Precision and Recall.

TABLE 7.2: Precision and Recall of Test Dataset

		Precision				Recall			
		Valence	Arousal	Control	Prediction	Valence	Arousal	Control	Prediction
r	rf	0.83	0.86	0.87	0.83	0.83	0.85	0.86	0.81
	xgb	**0.86**	0.86	**0.88**	0.85	**0.86**	0.86	**0.88**	0.84
b	rf	0.69	0.69	0.70	0.67	0.68	0.68	0.70	0.63
	xgb	0.72	0.71	0.73	0.69	0.71	0.70	0.73	0.67
s	rf	0.83	0.84	0.86	0.84	0.82	0.84	0.86	0.79
	xgb	0.85	**0.88**	0.87	**0.86**	0.85	**0.88**	0.87	**0.86**
b_s	rf	0.82	0.85	0.86	0.84	0.80	0.85	0.86	0.79
	xgb	0.85	**0.88**	0.87	**0.86**	0.85	**0.88**	0.87	**0.86**
a	rf	0.67	0.71	0.73	0.70	0.64	0.71	0.73	0.63
	xgb	0.70	0.74	0.77	0.74	0.69	0.73	0.77	0.71
a_b	rf	0.58	0.60	0.60	0.57	0.57	0.60	0.60	0.53
	xgb	0.56	0.58	0.59	0.56	0.56	0.58	0.59	0.54
a_s	rf	0.59	0.61	0.61	0.61	0.58	0.61	0.61	0.57
	xgb	0.59	0.61	0.62	0.58	0.58	0.61	0.61	0.57
a_b_s	rf	0.58	0.62	0.61	0.61	0.57	0.62	0.60	0.58
	xgb	0.59	0.61	0.62	0.58	0.58	0.61	0.61	0.57