KNN

Classification Report:

	precision	recall	f1-score	support
Anger	0.62	0.80	0.70	435
Boredom	0.62	0.78	0.69	411
Breath	0.76	0.98	0.86	436
Disappointment	0.88	1.00	0.94	438
Disgust	0.55	0.56	0.56	417
Excitement	0.86	1.00	0.92	409
Fear	0.75	0.62	0.68	398
Happy	0.55	0.43	0.48	449
Neutral	0.73	0.88	0.80	418
Pain	0.55	0.43	0.48	401
Pleasure	0.75	0.83	0.79	431
Sad	0.84	0.59	0.70	406
Surprise	0.66	0.30	0.41	432
accuracy			0.71	5481
macro avg	0.70	0.71	0.69	5481
weighted avg	0.70	0.71	0.69	5481

RF

Classification Report:

	precision	recall	f1-score	support
Anger	0.98	0.99	0.99	435
Boredom	0.97	0.99	0.98	411
Breath	1.00	1.00	1.00	436
Disappointment	1.00	1.00	1.00	438
Disgust	0.95	0.99	0.97	417
Excitement	1.00	1.00	1.00	409
Fear	0.92	0.94	0.93	398
Happy	0.87	0.85	0.86	449
Neutral	0.99	1.00	1.00	418
Pain	0.96	0.95	0.95	401
Pleasure	0.98	1.00	0.99	431
Sad	0.92	0.85	0.88	406
Surprise	0.92	0.91	0.92	432
accuracy			0.96	5481
macro avg	0.96	0.96	0.96	5481
weighted avg	0.96	0.96	0.96	5481

MLP

Classification Report for MLP Classifier:

	precision	recall	f1-score	support
Anger	0.92	0.62	0.74	435
Boredom	0.66	0.81	0.73	411
Breath	0.95	0.94	0.94	436
Disappointment	0.93	1.00	0.96	438
Disgust	0.65	0.73	0.69	417
Excitement	0.97	0.99	0.98	409
Fear	0.86	0.78	0.82	398
Happy	0.59	0.64	0.62	449
Neutral	0.89	0.81	0.85	418
Pain	0.60	0.75	0.66	401
Pleasure	0.89	0.87	0.88	431
Sad	0.69	0.68	0.68	406
Surprise	0.77	0.63	0.69	432
accuracy			0.79	5481
macro avg	0.80	0.79	0.79	5481
weighted avg	0.80	0.79	0.79	5481

DT

Classification Report:

	precision	recall	f1-score	support
Anger	0.92	0.99	0.95	435
Boredom	0.91	0.98	0.94	411
Breath	0.97	1.00	0.99	436
Disappointment	0.99	1.00	0.99	438
Disgust	0.91	0.97	0.94	417
Excitement	0.98	1.00	0.99	409
Fear	0.88	0.89	0.88	398
Happy	0.85	0.74	0.79	449
Neutral	0.97	1.00	0.98	418
Pain	0.89	0.91	0.90	401
Pleasure	0.96	0.99	0.97	431
Sad	0.88	0.67	0.76	406
Surprise	0.88	0.86	0.87	432
accuracy			0.92	5481
macro avg	0.92	0.92	0.92	5481
weighted avg	0.92	0.92	0.92	5481

XG Boost

	precision	recall	f1-score	support
Anger	0.98	1.00	0.99	287
Boredom	0.99	1.00	1.00	305
Breath	1.00	1.00	1.00	293
Disappointment	1.00	1.00	1.00	314
Disgust	0.98	0.99	0.99	296
Excitement	1.00	1.00	1.00	316
Fear	0.98	1.00	0.99	320
Happy	0.98	0.99	0.98	290
Neutral	1.00	1.00	1.00	289
Pain	0.98	0.98	0.98	311
Pleasure	1.00	1.00	1.00	296
Sad	0.99	0.91	0.95	289
Surprise	0.99	0.99	0.99	289
accuracy			0.99	3895
macro avg	0.99	0.99	0.99	3895
weighted avg	0.99	0.99	0.99	3895

Light GBM

Classification Report:

	precision	recall	f1-score	support
Anger	0.99	1.00	0.99	287
Boredom	1.00	1.00	1.00	305
Breath	1.00	1.00	1.00	293
Disappointment	1.00	1.00	1.00	314
Disgust	0.98	1.00	0.99	296
Excitement	1.00	1.00	1.00	316
Fear	0.99	0.99	0.99	320
Happy	0.95	0.99	0.97	290
Neutral	1.00	1.00	1.00	289
Pain	0.97	0.98	0.98	311
Pleasure	1.00	1.00	1.00	296
Sad	0.98	0.91	0.95	289
Surprise	0.99	0.98	0.99	289
accuracy			0.99	3895
macro avg	0.99	0.99	0.99	3895
weighted avg	0.99	0.99	0.99	3895

GBC

Classification Report:

	precision	recall	f1-score	support
Anger	0.77	0.80	0.79	435
Boredom	0.78	0.82	0.80	411
Breath	0.93	0.97	0.95	436
Disappointment	0.98	1.00	0.99	438
Disgust	0.72	0.71	0.72	417
Excitement	0.93	0.99	0.96	409
Fear	0.81	0.79	0.80	398
Happy	0.63	0.67	0.65	449
Neutral	0.85	0.90	0.87	418
Pain	0.65	0.57	0.61	401
Pleasure	0.81	0.85	0.83	431
Sad	0.81	0.76	0.78	406
Surprise	0.75	0.63	0.68	432
accuracy			0.80	5481
macro avg	0.80	0.80	0.80	5481
weighted avg	0.80	0.80	0.80	

LSTM

Classification Report:

	precision	recall	f1-score	support
Anger	0.95	0.97	0.96	435
Boredom	0.92	0.98	0.95	411
Breath	0.97	1.00	0.99	436
Disappointment	0.99	1.00	0.99	438
Disgust	0.91	0.93	0.92	417
Excitement	0.99	1.00	0.99	409
Fear	0.90	0.89	0.90	398
Happy	0.86	0.74	0.80	449
Neutral	0.95	1.00	0.97	418
Pain	0.89	0.87	0.88	401
Pleasure	0.96	0.98	0.97	431
Sad	0.86	0.80	0.83	406
Surprise	0.85	0.87	0.86	432
accuracy			0.93	5481
macro avg	0.92	0.93	0.92	5481
weighted avg	0.92	0.93	0.92	5481

GRU

Classification Report:

	precision	recall	f1-score	support
Anger	0.81	0.91	0.86	307
Boredom	0.81	0.82	0.81	306
Breath	0.96	0.99	0.98	320
Disappointment	1.00	1.00	1.00	323
Disgust	0.61	0.72	0.66	297
Excitement	1.00	0.98	0.99	327
Fear	0.86	0.72	0.78	314
Happy	0.69	0.68	0.69	347
Neutral	0.80	0.94	0.87	339
Pain	0.61	0.52	0.56	291
Pleasure	0.88	0.87	0.87	327
Sad	0.82	0.71	0.76	294
Surprise	0.68	0.65	0.67	319
accuracy			0.81	4111
macro avg	0.81	0.81	0.81	4111
weighted avg	0.81	0.81	0.81	4111

BI-GRU

Classification Report:

	precision	recall	f1-score	support
Anger	0.93	0.93	0.93	307
Boredom	0.88	0.89	0.88	306
Breath	0.98	1.00	0.99	320
Disappointment	1.00	1.00	1.00	323
Disgust	0.72	0.86	0.78	297
Excitement	1.00	1.00	1.00	327
Fear	0.88	0.79	0.83	314
Happy	0.80	0.77	0.79	347
Neutral	0.94	0.97	0.96	339
Pain	0.73	0.68	0.71	291
Pleasure	0.95	0.94	0.95	327
Sad	0.83	0.78	0.81	294
Surprise	0.76	0.79	0.77	319
accuracy			0.88	4111
macro avg	0.88	0.88	0.88	4111
weighted avg	0.88	0.88	0.88	4111