Gradient boosting	Raw / 0.4	Filter / 0.4	ASR / 0.4
All channel&all feature	0.49	0.44	0.24
F part channel&all feature	0.53	0.38	0.24
All channel &hybrid feature	0.58	0.47	0.29
F part channel&hybrid feature	0.47	0.47	0.2

Decision Tree	Raw / 0.4	Filter / 0.4	ASR / 0.4
All channel&all feature	0.56	0.44	0.24
F part channel&all feature	0.4	0.4	0.29
All channel &hybrid feature	0.44	0.47	0.18
F part channel&hybrid feature	0.42	0.4	0.24

(準確率浮動較大)

KNN	Raw / 0.4	Filter / 0.4	ASR / 0.4
All channel&all feature	0.18	0.29	0.29
F part channel&all feature	0.24	0.29	0.24
All channel &hybrid feature	0.33	0.31	0.18
F part channel&hybrid feature	0.38	0.29	0.24

(準確率穩定)

各類情緒分類

Gradient boosting	Boring	Calm	Horror	Funny
All channel&all feature_raw	0.45	0.54	0.38	0.6
F part channel&all feature_raw	0.71	0.4	0.46	0.7
All channel &hybrid	0.5	0.78	0.42	0.73
feature_raw				
F part channel&hybrid	0.33	0.54	0.46	0.5
feature_raw				
All channel&all	0.5	0.58	0.29	0.5
feature_filtered				
F part channel&all	0.71	0.62	0.22	0.25
feature_filtered				
All channel &hybrid feature_	0.62	0.55	0.33	0.45
filtered				
F part channel&hybrid feature_	0.83	0.43	0.33	0.5
filtered				
All channel&all feature_ asr	0.3	0.31	0.1	0.25
F part channel&all feature_ asr	0.25	0.42	0	0.3
All channel &hybrid feature_	0.36	0.36	0.18	0.25
asr				
F part channel&hybrid feature_	0.18	0.36	0	0.22
asr				

Decision Tree	Boring	Calm	Horror	Funny
All channel&all feature_raw	0.64	0.62	0.42	0.55
F part channel&all feature_raw	0.4	0.46	0.36	0.38
All channel &hybrid	0.33	0.5	0.36	0.67
feature_raw				
F part channel&hybrid	0.36	0.67	0.36	0.67
feature_raw				
All channel&all	0.67	0.47	0.27	0.56
feature_filtered				
F part channel&all	0.29	0.43	0.45	0.38
feature_filtered				
All channel &hybrid feature_	0.5	0.43	0.4	0.5
filtered				
F part channel&hybrid feature_	0.36	0.42	0.44	0.38
filtered				
All channel&all feature_ asr	0.56	0.2	0.2	0.09
F part channel&all feature_ asr	0.5	0.12	0.29	0.23
All channel &hybrid feature_	0.27	0.11	0.22	0.08
asr				
F part channel&hybrid feature_	0.33	0.1	0.2	0.31
asr				

KNN	Boring	Calm	Horror	Funny
All channel&all feature_raw	0.38	0.15	0.17	0
F part channel&all feature_raw	0.38	0.22	0.25	0.17
All channel &hybrid	0.44	0.33	0.31	0.2
feature_raw				
F part channel&hybrid	0.38	0.32	0.44	0.5
feature_raw				
All channel&all	0.57	0.25	0.18	0.27
feature_filtered				
F part channel&all	0.3	0.32	0.38	0.12
feature_filtered				
All channel &hybrid feature_	0.3	0.27	0.29	0.38
filtered				
F part channel&hybrid feature_	0.33	0.28	0.5	0.22
filtered				
All channel&all feature_ asr	0.31	0.26	0.33	0.29
F part channel&all feature_ asr	0.27	0.28	0	0.2
All channel &hybrid feature_	0.09	0.21	0.5	0.12
asr				
F part channel&hybrid feature_	0.31	0.21	0.25	0.18
asr				

Model	Accuracy	precision	recall	F1 Score
Gradient boosting	0.58	0.61	0.58	0.57
Decision Tree	0.56	0.59	0.56	0.56
KNN	0.38	0.41	0.29	0.29

Model	Mean Accuracy	STD
Gradient boosting	0.715	0.102
Decision Tree	0.107	0.060
KNN	0.402	0.157