Model Metrics:

	precision	recall	f1-score
cnn_spectrogram_model	0.382476	0.436457	0.396434
cnn_mfcc_model	0.328554	0.357161	0.324103
random_forest_model	0.302282	0.371758	0.305980
resnet_mfcc_model	0.292270	0.333644	0.289393
mean_mfcc_nn_model	0.304392	0.388999	0.285756
svm_model	0.261212	0.303996	0.250091
logistic_regression_model	0.249118	0.289352	0.215834

Convolutional Neural Network with Mel-Frequency Spectrogram Features:

```
classification Report:
              precision    recall  f1-score   support

           0       0.45      0.65      0.53       705
           1       0.70      0.44      0.54      2163
           2       0.35      0.40      0.37       405
           3       0.61      0.71      0.65       562
           4       0.38      0.60      0.46       750
           5       0.26      0.23      0.24       193
           6       0.25      0.43      0.32        44
           7       0.06      0.04      0.05       294

    accuracy                           0.49      5116
   macro avg       0.38      0.44      0.40      5116
weighted avg       0.53      0.49      0.49      5116
```

Convolutional Neural Network with Mel-Frequency Cepstral Coefficient Features:

```
classification Report:
              precision    recall  f1-score   support

           0       0.44      0.41      0.43       705
           1       0.67      0.39      0.49      2163
           2       0.20      0.47      0.28       405
           3       0.61      0.54      0.57       562
           4       0.35      0.56      0.43       750
           5       0.17      0.17      0.17       193
           6       0.11      0.25      0.15        44
           7       0.08      0.07      0.08       294

    accuracy                           0.41      5116
   macro avg       0.33      0.36      0.32      5116
weighted avg       0.49      0.41      0.43      5116
```

Convolutional Neural Network with ResNet50 with MFCC Features:

classification Report:

	precision	recall	f1-score	support
0	0.37	0.42	0.39	705
1	0.60	0.32	0.42	2163
2	0.19	0.27	0.22	405
3	0.49	0.48	0.49	562
4	0.32	0.50	0.39	750
5	0.13	0.22	0.16	193
6	0.06	0.39	0.10	44
7	0.10	0.07	0.09	294
accuracy			0.36	5116
macro avg	0.28	0.34	0.28	5116
weighted avg	0.43	0.36	0.37	5116

Neural Network with Mean MFCC Value Features:

classification Report:

	precision	recall	f1-score	support
0	0.41	0.42	0.42	717
1	0.73	0.21	0.33	2137
2	0.25	0.31	0.28	412
3	0.35	0.69	0.47	552
4	0.41	0.37	0.39	772
5	0.12	0.37	0.19	182
6	0.07	0.63	0.13	63
7	0.07	0.10	0.09	281
accuracy			0.33	5116
macro avg	0.30	0.39	0.29	5116
weighted avg	0.49	0.33	0.34	5116

Logistic Regression with Mean MFCC Value Features:

	precision	recall	f1-score	support
0	0.34	0.22	0.26	1413
1	0.66	0.24	0.35	4206
2	0.17	0.14	0.15	829
3	0.24	0.58	0.34	1168
4	0.39	0.35	0.37	1559
5	0.09	0.22	0.13	378
6	0.04	0.52	0.07	110
7	0.07	0.05	0.06	568
accuracy			0.28	10231
macro avg	0.25	0.29	0.22	10231
weighted avg	0.42	0.28	0.30	10231

Random Forest with Mean MFCC Value Features:

	precision	recall	f1-score	support
0	0.41	0.52	0.46	1413
1	0.69	0.31	0.43	4206
2	0.27	0.33	0.29	829
3	0.42	0.66	0.51	1168
4	0.36	0.52	0.43	1559
5	0.14	0.24	0.18	378
6	0.07	0.37	0.12	110
7	0.07	0.02	0.04	568
accuracy			0.39	10231
macro avg	0.30	0.37	0.31	10231
weighted avg	0.47	0.39	0.40	10231

Support Vector Classifier with Mean MFCC Value Features:

	precision	recall	f1-score	support
0	0.37	0.34	0.36	1413
1	0.63	0.25	0.36	4206
2	0.21	0.24	0.23	829
3	0.27	0.82	0.40	1168
4	0.35	0.34	0.34	1559
5	0.14	0.20	0.16	378
6	0.08	0.21	0.11	110
7	0.05	0.03	0.04	568
accuracy			0.33	10231
macro avg	0.26	0.30	0.25	10231
weighted avg	0.42	0.33	0.32	10231