

MNB

| 80% training/20% testing | | | | | | 50% training/50% testing | | | | | | Delta (new-old) | | | |
|-------------------------------------|--------------|--------|----------|---------|-------|-------------------------------------|--------------|--------|----------|---------|-------|--------------------|----------|----------|---------|
| Score for Emotion | 0.437550925 | | | | | Score for Emotion | 0.449225934 | | | | | | 0.011675 | | |
| Accuracy for Emotion | 0.437550925 | | | | | Accuracy for Emotion | 0.449225934 | | | | | | 0.011675 | | |
| Precision (Weighted) for Emotion | 0.485135331 | | | | | Precision (Weighted) for Emotion | 0.490750903 | | | | | | 0.005616 | | |
| F1 Score (Weighted) for Emotion | 0.370297213 | | | | | F1 Score (Weighted) for Emotion | 0.3901304 | | | | | | 0.019833 | | |
| F1 Score (Macro) for Emotion | 0.223413218 | | | | | F1 Score (Macro) for Emotion | 0.249161233 | | | | | | 0.025748 | | |
| | precision | recall | f1-score | support | | | precision | recall | f1-score | support | | precision | recall | f1-score | support |
| | 0 | 0.54 | 0.53 | 0.54 | 2102 | | 0 | 0.53 | 0.53 | 0.53 | 5242 | -0.01 | 0 | -0.01 | 3140 |
| | 1 | 0.63 | 0.37 | 0.46 | 1233 | | 1 | 0.61 | 0.42 | 0.49 | 3057 | -0.02 | 0.05 | 0.03 | 1824 |
| | 2 | 0.49 | 0.19 | 0.27 | 1011 | | 2 | 0.55 | 0.23 | 0.32 | 2661 | 0.06 | 0.04 | 0.05 | 1650 |
| | 3 | 0.42 | 0.14 | 0.21 | 1710 | | 3 | 0.43 | 0.17 | 0.25 | 4173 | 0.01 | 0.03 | 0.04 | 2463 |
| | 4 | 0.44 | 0.17 | 0.24 | 2290 | | 4 | 0.45 | 0.18 | 0.26 | 5731 | 0.01 | 0.01 | 0.02 | 3441 |
| | 5 | 0.54 | 0.12 | 0.2 | 721 | | 5 | 0.45 | 0.13 | 0.21 | 1762 | -0.09 | 0.01 | 0.01 | 1041 |
| | 6 | 0.52 | 0.09 | 0.16 | 944 | | 6 | 0.56 | 0.13 | 0.22 | 2493 | 0.04 | 0.04 | 0.06 | 1549 |
| | 7 | 0.56 | 0.16 | 0.24 | 1174 | | 7 | 0.55 | 0.18 | 0.27 | 2985 | -0.01 | 0.02 | 0.03 | 1811 |
| | 8 | 0.55 | 0.05 | 0.1 | 387 | | 8 | 0.55 | 0.07 | 0.13 | 1065 | 0 | 0.02 | 0.03 | 678 |
| | 9 | 0.52 | 0.08 | 0.14 | 928 | | 9 | 0.51 | 0.1 | 0.16 | 2366 | -0.01 | 0.02 | 0.02 | 1438 |
| | 10 | 0.48 | 0.15 | 0.23 | 1550 | | 10 | 0.46 | 0.18 | 0.25 | 3717 | -0.02 | 0.03 | 0.02 | 2167 |
| | 11 | 0.56 | 0.1 | 0.17 | 590 | | 11 | 0.55 | 0.14 | 0.22 | 1437 | -0.01 | 0.04 | 0.05 | 847 |
| | 12 | 0.5 | 0.02 | 0.04 | 265 | | 12 | 0.61 | 0.03 | 0.05 | 699 | 0.11 | 0.01 | 0.01 | 434 |
| | 13 | 0.45 | 0.05 | 0.08 | 589 | | 13 | 0.52 | 0.08 | 0.14 | 1512 | 0.07 | 0.03 | 0.06 | 923 |
| | 14 | 0.74 | 0.08 | 0.14 | 344 | | 14 | 0.71 | 0.09 | 0.17 | 896 | -0.03 | 0.01 | 0.03 | 552 |
| | 15 | 0.79 | 0.72 | 0.75 | 1423 | | 15 | 0.77 | 0.74 | 0.76 | 3551 | -0.02 | 0.02 | 0.01 | 2128 |
| | 16 | 0 | 0 | 0 | 68 | | 16 | 0 | 0 | 0 | 183 | 0 | 0 | 0 | 115 |
| | 17 | 0.53 | 0.18 | 0.26 | 866 | | 17 | 0.5 | 0.19 | 0.28 | 2152 | -0.03 | 0.01 | 0.02 | 1286 |
| | 18 | 0.71 | 0.41 | 0.52 | 1001 | | 18 | 0.69 | 0.47 | 0.56 | 2501 | -0.02 | 0.06 | 0.04 | 1500 |
| | 19 | 0 | 0 | 0 | 185 | | 19 | 0.5 | 0 | 0.01 | 392 | 0.5 | 0 | 0.01 | 207 |
| | 20 | 0.39 | 0.89 | 0.54 | 11042 | | 20 | 0.4 | 0.87 | 0.55 | 27584 | 0.01 | -0.02 | 0.01 | 16542 |
| | 21 | 0.58 | 0.18 | 0.28 | 955 | | 21 | 0.58 | 0.22 | 0.32 | 2294 | 0 | 0.04 | 0.04 | 1339 |
| | 22 | 0 | 0 | 0 | 120 | | 22 | 0 | 0 | 0 | 323 | 0 | 0 | 0 | 203 |
| | 23 | 0.54 | 0.07 | 0.12 | 986 | | 23 | 0.46 | 0.09 | 0.15 | 2320 | -0.08 | 0.02 | 0.03 | 1334 |
| | 24 | 0 | 0 | 0 | 157 | | 24 | 0.17 | 0 | 0.01 | 383 | 0.17 | 0 | 0.01 | 226 |
| | 25 | 0.53 | 0.08 | 0.13 | 302 | | 25 | 0.63 | 0.1 | 0.18 | 773 | 0.1 | 0.02 | 0.05 | 471 |
| | 26 | 0.56 | 0.13 | 0.22 | 758 | | 26 | 0.55 | 0.16 | 0.25 | 1911 | -0.01 | 0.03 | 0.03 | 1153 |
| | 27 | 0.49 | 0.12 | 0.19 | 663 | | 27 | 0.55 | 0.16 | 0.25 | 1747 | 0.06 | 0.04 | 0.06 | 1084 |
| | accuracy | | | 0.44 | 34364 | | accuracy | | | 0.45 | 85910 | | | 0.01 | 51546 |
| | macro avg | 0.47 | 0.18 | 0.22 | 34364 | | macro avg | 0.49 | 0.2 | 0.25 | 85910 | 0.02 | 0.02 | 0.03 | 51546 |
| | weighted avg | 0.49 | 0.44 | 0.37 | 34364 | | weighted avg | 0.49 | 0.45 | 0.39 | 85910 | 0 | 0.01 | 0.02 | 51546 |
| | | | | | | | | | | | | | | | |
| Score for Sentiment | 0.606070306 | | | | | Score for Sentiment | 0.614759632 | | | | | | 0.008689 | | |
| Accuracy for Emotion | 0.606070306 | | | | | Accuracy for Emotion | 0.614759632 | | | | | | 0.008689 | | |
| Precision (Weighted) for Emotion | 0.600581792 | | | | | Precision (Weighted) for Emotion | 0.609513349 | | | | | | 0.008932 | | |
| F1 Score (Weighted) for Emotion | 0.599332604 | | | | | F1 Score (Weighted) for Emotion | 0.608632921 | | | | | | 0.0093 | | |
| F1 Score (Macro) for Emotion | 0.563918432 | | | | | F1 Score (Macro) for Emotion | 0.575957613 | | | | | | 0.012039 | | |
| | precision | recall | f1-score | support | | | precision | recall | f1-score | support | | | | | |
| | 0 | 0.53 | 0.32 | 0.4 | 3767 | | 0 | 0.54 | 0.34 | 0.42 | 9545 | 0.01 | 0.02 | 0.02 | 5778 |
| | 1 | 0.6 | 0.59 | 0.59 | 7711 | | 1 | 0.61 | 0.61 | 0.61 | 19208 | 0.01 | 0.02 | 0.02 | 11497 |
| | 2 | 0.56 | 0.57 | 0.56 | 11042 | | 2 | 0.57 | 0.57 | 0.57 | 27584 | 0.01 | 0 | 0.01 | 16542 |
| | 3 | 0.66 | 0.75 | 0.7 | 11844 | | 3 | 0.66 | 0.75 | 0.7 | 29573 | 0 | 0 | 0 | 17729 |
| | | | | 0.61 | 34364 | | | | | 0.61 | 85910 | | | 0 | 51546 |
| | macro avg | 0.59 | 0.55 | 0.56 | 34364 | | macro avg | 0.6 | 0.57 | 0.58 | 85910 | 0.01 | 0.02 | 0.02 | 51546 |
| | weighted avg | 0.6 | 0.61 | 0.6 | 34364 | | weighted avg | 0.61 | 0.61 | 0.61 | 85910 | 0.01 | 0 | 0.01 | 51546 |

| 80% training/20% testing | | | | | | 50% training/50% testing | | | | | | | | | | |
|----------------------------------|--------------|--------|----------|---------|-------|----------------------------------|--------------|----------|---------|------|-----------|-----------------|----------|---------|------|-------|
| Score for Emotion | 0.596438133 | | | | | Score for Emotion | 0.621534164 | | | | | Delta (new-old) | 0.025096 | | | |
| Accuracy for Emotion | 0.596438133 | | | | | Accuracy for Emotion | 0.621534164 | | | | | | 0.025096 | | | |
| Precision (Weighted) for Emotion | 0.613522205 | | | | | Precision (Weighted) for Emotion | 0.632473884 | | | | | | 0.018952 | | | |
| F1 Score (Weighted) for Emotion | 0.592999113 | | | | | F1 Score (Weighted) for Emotion | 0.616308677 | | | | | | 0.02331 | | | |
| F1 Score (Macro) for Emotion | 0.512459252 | | | | | F1 Score (Macro) for Emotion | 0.539113605 | | | | | | 0.026654 | | | |
| | precision | recall | f1-score | support | | precision | recall | f1-score | support | | precision | recall | f1-score | support | | |
| | 0 | 0.57 | 0.82 | 0.67 | 2102 | | 0 | 0.58 | 0.82 | 0.68 | 5242 | | 0.01 | 0 | 0.01 | 3140 |
| | 1 | 0.58 | 0.82 | 0.68 | 1233 | | 1 | 0.59 | 0.83 | 0.69 | 3057 | | 0.01 | 0.01 | 0.01 | 1824 |
| | 2 | 0.44 | 0.7 | 0.54 | 1011 | | 2 | 0.48 | 0.71 | 0.57 | 2661 | | 0.04 | 0.01 | 0.03 | 1650 |
| | 3 | 0.41 | 0.58 | 0.48 | 1710 | | 3 | 0.43 | 0.58 | 0.5 | 4173 | | 0.02 | 0 | 0.02 | 2463 |
| | 4 | 0.47 | 0.56 | 0.51 | 2290 | | 4 | 0.49 | 0.54 | 0.52 | 5731 | | 0.02 | -0.02 | 0.01 | 3441 |
| | 5 | 0.48 | 0.55 | 0.51 | 721 | | 5 | 0.49 | 0.58 | 0.53 | 1762 | | 0.01 | 0.03 | 0.02 | 1041 |
| | 6 | 0.48 | 0.58 | 0.52 | 944 | | 6 | 0.52 | 0.56 | 0.54 | 2493 | | 0.04 | -0.02 | 0.02 | 1549 |
| | 7 | 0.59 | 0.63 | 0.61 | 1174 | | 7 | 0.61 | 0.61 | 0.61 | 2985 | | 0.02 | -0.02 | 0 | 1811 |
| | 8 | 0.48 | 0.58 | 0.52 | 387 | | 8 | 0.54 | 0.55 | 0.54 | 1065 | | 0.06 | -0.03 | 0.02 | 678 |
| | 9 | 0.46 | 0.48 | 0.47 | 928 | | 9 | 0.49 | 0.45 | 0.47 | 2366 | | 0.03 | -0.03 | 0 | 1438 |
| | 10 | 0.53 | 0.49 | 0.51 | 1550 | | 10 | 0.56 | 0.49 | 0.53 | 3717 | | 0.03 | 0 | 0.02 | 2167 |
| | 11 | 0.55 | 0.42 | 0.47 | 590 | | 11 | 0.6 | 0.43 | 0.5 | 1437 | | 0.05 | 0.01 | 0.03 | 847 |
| | 12 | 0.46 | 0.38 | 0.42 | 265 | | 12 | 0.58 | 0.4 | 0.47 | 699 | | 0.12 | 0.02 | 0.05 | 434 |
| | 13 | 0.49 | 0.41 | 0.44 | 589 | | 13 | 0.57 | 0.41 | 0.48 | 1512 | | 0.08 | 0 | 0.04 | 923 |
| | 14 | 0.61 | 0.56 | 0.58 | 344 | | 14 | 0.67 | 0.58 | 0.62 | 896 | | 0.06 | 0.02 | 0.04 | 552 |
| | 15 | 0.86 | 0.83 | 0.84 | 1423 | | 15 | 0.88 | 0.83 | 0.85 | 3551 | | 0.02 | 0 | 0.01 | 2128 |
| | 16 | 0.4 | 0.28 | 0.33 | 68 | | 16 | 0.48 | 0.36 | 0.41 | 183 | | 0.08 | 0.08 | 0.08 | 115 |
| | 17 | 0.6 | 0.45 | 0.51 | 866 | | 17 | 0.65 | 0.45 | 0.53 | 2152 | | 0.05 | 0 | 0.02 | 1286 |
| | 18 | 0.76 | 0.7 | 0.73 | 1001 | | 18 | 0.76 | 0.74 | 0.75 | 2501 | | 0 | 0.04 | 0.02 | 1500 |
| | 19 | 0.6 | 0.27 | 0.37 | 185 | | 19 | 0.64 | 0.3 | 0.41 | 392 | | 0.04 | 0.03 | 0.04 | 207 |
| | 20 | 0.71 | 0.65 | 0.68 | 11042 | | 20 | 0.71 | 0.72 | 0.71 | 27584 | | 0 | 0.07 | 0.03 | 16542 |
| | 21 | 0.71 | 0.4 | 0.51 | 955 | | 21 | 0.72 | 0.42 | 0.53 | 2294 | | 0.01 | 0.02 | 0.02 | 1339 |
| | 22 | 0.62 | 0.17 | 0.27 | 120 | | 22 | 0.63 | 0.18 | 0.28 | 323 | | 0.01 | 0.01 | 0.01 | 203 |
| | 23 | 0.63 | 0.25 | 0.35 | 986 | | 23 | 0.64 | 0.25 | 0.36 | 2320 | | 0.01 | 0 | 0.01 | 1334 |
| | 24 | 0.6 | 0.16 | 0.25 | 157 | | 24 | 0.66 | 0.25 | 0.36 | 383 | | 0.06 | 0.09 | 0.11 | 226 |
| | 25 | 0.65 | 0.48 | 0.56 | 302 | | 25 | 0.7 | 0.55 | 0.62 | 773 | | 0.05 | 0.07 | 0.06 | 471 |
| | 26 | 0.71 | 0.4 | 0.51 | 758 | | 26 | 0.7 | 0.4 | 0.51 | 1911 | | -0.01 | 0 | 0 | 1153 |
| | 27 | 0.63 | 0.39 | 0.48 | 663 | | 27 | 0.69 | 0.44 | 0.54 | 1747 | | 0.06 | 0.05 | 0.06 | 1084 |
| | accuracy | | | 0.6 | 34364 | | accuracy | | | 0.62 | 85910 | | | | 0.02 | 51546 |
| | macro avg | 0.57 | 0.5 | 0.51 | 34364 | | macro avg | 0.61 | 0.52 | 0.54 | 85910 | | 0.04 | 0.02 | 0.03 | 51546 |
| | weighted avg | 0.61 | 0.6 | 0.59 | 34364 | | weighted avg | 0.63 | 0.62 | 0.62 | 85910 | | 0.02 | 0.02 | 0.03 | 51546 |
| | | | | | | | | | | | | | | | | |
| Score for Sentiment | 0.720230474 | | | | | Score for Sentiment | 0.73947154 | | | | | | 0.019241 | | | |
| Accuracy for Emotion | 0.720230474 | | | | | Accuracy for Emotion | 0.73947154 | | | | | | 0.019241 | | | |
| Precision (Weighted) for Emotion | 0.730819334 | | | | | Precision (Weighted) for Emotion | 0.746933632 | | | | | | 0.016114 | | | |
| F1 Score (Weighted) for Emotion | 0.722443408 | | | | | F1 Score (Weighted) for Emotion | 0.741232869 | | | | | | 0.018789 | | | |
| F1 Score (Macro) for Emotion | 0.706697716 | | | | | F1 Score (Macro) for Emotion | 0.725295616 | | | | | | 0.018598 | | | |
| | precision | recall | f1-score | support | | precision | recall | f1-score | support | | | | | | | |
| | 0 | 0.57 | 0.72 | 0.63 | 3767 | | 0 | 0.6 | 0.71 | 0.65 | 9545 | | 0.03 | -0.01 | 0.02 | 5778 |
| | 1 | 0.68 | 0.78 | 0.72 | 7711 | | 1 | 0.7 | 0.79 | 0.74 | 19208 | | 0.02 | 0.01 | 0.02 | 11497 |
| | 2 | 0.71 | 0.67 | 0.69 | 11042 | | 2 | 0.73 | 0.7 | 0.71 | 27584 | | 0.02 | 0.03 | 0.02 | 16542 |
| | 3 | 0.84 | 0.73 | 0.78 | 11844 | | 3 | 0.84 | 0.76 | 0.8 | 29573 | | 0 | 0.03 | 0.02 | 17729 |
| | accuracy | | | 0.72 | 34364 | | accuracy | | | 0.74 | 85910 | | | | 0.02 | 51546 |
| | macro avg | 0.7 | 0.72 | 0.71 | 34364 | | macro avg | 0.72 | 0.74 | 0.73 | 85910 | | 0.02 | 0.02 | 0.02 | 51546 |
| | weighted avg | 0.73 | 0.72 | 0.72 | 34364 | | weighted avg | 0.75 | 0.74 | 0.74 | 85910 | | 0.02 | 0.02 | 0.02 | 51546 |

| 80% training/20% testing | | | | | 50% training/50% testing | | | | | | | | | |
|----------------------------------|-----------|--------|----------|---------|----------------------------------|-------------|--------|----------|---------|-----------------|-----------|--------|----------|---------|
| Score for Emotion | 0.577581 | | | | Score for Emotion | 0.469293 | | | | Delta (new-old) | -0.10829 | | | |
| Accuracy for Emotion | 0.577581 | | | | Accuracy for Emotion | 0.469293 | | | | | -0.10829 | | | |
| Precision (Weighted) for Emotion | 0.570543 | | | | Precision (Weighted) | 0.459024 | | | | | -0.11152 | | | |
| F1 Score (Weighted) for Emotion | 0.571757 | | | | F1 Score (Weighted) | 0.423664 | | | | | -0.14809 | | | |
| F1 Score (Macro) for Emotion | 0.507736 | | | | F1 Score (Macro) for | 0.318377 | | | | | -0.18936 | | | |
| | precision | recall | f1-score | support | | precision | recall | f1-score | support | | precision | recall | f1-score | support |
| 0 | 0.62 | 0.67 | 0.65 | 2101 | 0 | 0.55 | 0.52 | 0.53 | 5228 | | -0.07 | -0.15 | -0.12 | 3127 |
| 1 | 0.66 | 0.67 | 0.67 | 1255 | 1 | 0.57 | 0.58 | 0.57 | 3080 | | -0.09 | -0.09 | -0.1 | 1825 |
| 2 | 0.52 | 0.51 | 0.52 | 1022 | 2 | 0.44 | 0.26 | 0.33 | 2565 | | -0.08 | -0.25 | -0.19 | 1543 |
| 3 | 0.45 | 0.37 | 0.41 | 1682 | 3 | 0.28 | 0.15 | 0.2 | 4157 | | -0.17 | -0.22 | -0.21 | 2475 |
| 4 | 0.5 | 0.41 | 0.45 | 2208 | 4 | 0.34 | 0.15 | 0.21 | 5589 | | -0.16 | -0.26 | -0.24 | 3381 |
| 5 | 0.49 | 0.46 | 0.47 | 691 | 5 | 0.34 | 0.15 | 0.21 | 1702 | | -0.15 | -0.31 | -0.26 | 1011 |
| 6 | 0.49 | 0.45 | 0.47 | 986 | 6 | 0.41 | 0.2 | 0.27 | 2483 | | -0.08 | -0.25 | -0.2 | 1497 |
| 7 | 0.57 | 0.48 | 0.52 | 1172 | 7 | 0.44 | 0.22 | 0.3 | 2893 | | -0.13 | -0.26 | -0.22 | 1721 |
| 8 | 0.48 | 0.61 | 0.54 | 420 | 8 | 0.47 | 0.26 | 0.34 | 1077 | | -0.01 | -0.35 | -0.2 | 657 |
| 9 | 0.44 | 0.36 | 0.4 | 990 | 9 | 0.36 | 0.14 | 0.2 | 2358 | | -0.08 | -0.22 | -0.2 | 1368 |
| 10 | 0.47 | 0.47 | 0.47 | 1512 | 10 | 0.33 | 0.15 | 0.21 | 3771 | | -0.14 | -0.32 | -0.26 | 2259 |
| 11 | 0.5 | 0.42 | 0.46 | 597 | 11 | 0.43 | 0.21 | 0.28 | 1485 | | -0.07 | -0.21 | -0.18 | 888 |
| 12 | 0.38 | 0.39 | 0.39 | 289 | 12 | 0.49 | 0.12 | 0.2 | 729 | | 0.11 | -0.27 | -0.19 | 440 |
| 13 | 0.46 | 0.42 | 0.44 | 594 | 13 | 0.37 | 0.19 | 0.25 | 1499 | | -0.09 | -0.23 | -0.19 | 905 |
| 14 | 0.59 | 0.58 | 0.58 | 332 | 14 | 0.52 | 0.28 | 0.36 | 899 | | -0.07 | -0.3 | -0.22 | 567 |
| 15 | 0.85 | 0.82 | 0.84 | 1386 | 15 | 0.83 | 0.76 | 0.79 | 3559 | | -0.02 | -0.06 | -0.05 | 2173 |
| 16 | 0.44 | 0.41 | 0.42 | 76 | 16 | 0.31 | 0.05 | 0.08 | 174 | | -0.13 | -0.36 | -0.34 | 98 |
| 17 | 0.52 | 0.47 | 0.49 | 857 | 17 | 0.48 | 0.3 | 0.37 | 2172 | | -0.04 | -0.17 | -0.12 | 1315 |
| 18 | 0.66 | 0.82 | 0.73 | 1047 | 18 | 0.66 | 0.62 | 0.64 | 2442 | | 0 | -0.2 | -0.09 | 1395 |
| 19 | 0.48 | 0.4 | 0.44 | 170 | 19 | 0.54 | 0.07 | 0.13 | 420 | | 0.06 | -0.33 | -0.31 | 250 |
| 20 | 0.63 | 0.7 | 0.67 | 11029 | 20 | 0.45 | 0.83 | 0.58 | 27769 | | -0.18 | 0.13 | -0.09 | 16740 |
| 21 | 0.49 | 0.53 | 0.51 | 921 | 21 | 0.56 | 0.3 | 0.39 | 2297 | | 0.07 | -0.23 | -0.12 | 1376 |
| 22 | 0.39 | 0.29 | 0.33 | 129 | 22 | 0.42 | 0.06 | 0.11 | 358 | | 0.03 | -0.23 | -0.22 | 229 |
| 23 | 0.45 | 0.32 | 0.38 | 958 | 23 | 0.39 | 0.07 | 0.12 | 2366 | | -0.06 | -0.25 | -0.26 | 1408 |
| 24 | 0.42 | 0.38 | 0.39 | 165 | 24 | 0.4 | 0.09 | 0.15 | 419 | | -0.02 | -0.29 | -0.24 | 254 |
| 25 | 0.54 | 0.59 | 0.56 | 312 | 25 | 0.52 | 0.4 | 0.45 | 752 | | -0.02 | -0.19 | -0.11 | 440 |
| 26 | 0.51 | 0.5 | 0.51 | 763 | 26 | 0.51 | 0.21 | 0.3 | 1921 | | 0 | -0.29 | -0.21 | 1158 |
| 27 | 0.56 | 0.5 | 0.53 | 700 | 27 | 0.52 | 0.26 | 0.35 | 1746 | | -0.04 | -0.24 | -0.18 | 1046 |
| | | | | | | | | | | | | | | |
| accuracy | | | | | accuracy | | | 0.47 | 85910 | | | | | 51546 |
| macro avg | 0.52 | 0.5 | 0.51 | 34364 | macro_avg | 0.46 | 0.27 | 0.32 | 85910 | | | | | 51546 |
| weighted avg | 0.57 | 0.58 | 0.57 | 34364 | weighted_avg | 0.46 | 0.47 | 0.42 | 85910 | | | | | 51546 |
| | | | | | | | | | | | | | | |
| Score for Sentiment | 0.565155 | | | | Score for Sentiment | 0.725410313 | | | | | 0.160255 | | | |
| Accuracy for Emotion | 0.565155 | | | | Accuracy for Emotion | 0.725410313 | | | | | 0.160255 | | | |
| Precision (Weighted) for Emotion | 0.571357 | | | | Precision (Weighted) for Emotion | 0.724313449 | | | | | 0.152957 | | | |
| F1 Score (Weighted) for Emotion | 0.549716 | | | | F1 Score (Weighted) for Emotion | 0.724585208 | | | | | 0.17487 | | | |
| F1 Score (Macro) for Emotion | 0.490242 | | | | F1 Score (Macro) for Emotion | 0.704508824 | | | | | 0.214267 | | | |
| | precision | recall | f1-score | support | | precision | recall | f1-score | support | | | | | |
| 0 | 0.53 | 0.14 | 0.22 | 3816 | 0 | 0.65 | 0.58 | 0.61 | 9488 | | 0.12 | 0.44 | 0.39 | 5672 |
| 1 | 0.57 | 0.46 | 0.51 | 7745 | 1 | 0.71 | 0.73 | 0.72 | 19231 | | 0.14 | 0.27 | 0.21 | 11486 |
| 2 | 0.48 | 0.65 | 0.55 | 11029 | 2 | 0.7 | 0.7 | 0.7 | 27769 | | 0.22 | 0.05 | 0.15 | 16740 |
| 3 | 0.67 | 0.69 | 0.68 | 11774 | 3 | 0.79 | 0.8 | 0.79 | 29422 | | 0.12 | 0.11 | 0.11 | 17648 |
| | | | | | | | | | | | | | | |
| accuracy | | | 0.57 | 34364 | accuracy | | | 0.73 | 85910 | | | | 0.16 | 51546 |
| macro avg | 0.56 | 0.49 | 0.49 | 34364 | macro avg | 0.71 | 0.7 | 0.7 | 85910 | | 0.15 | 0.21 | 0.21 | 51546 |
| weighted avg | 0.57 | 0.57 | 0.55 | 34364 | weighted avg | 0.72 | 0.73 | 0.72 | 85910 | | 0.15 | 0.16 | 0.17 | 51546 |

| MLP Grid Search CV | | | | | | 50% training/50% testing | | | | | | | | | |
|----------------------------------|--------------|--------|----------|---------|-------|----------------------------------|----------|----------|---------|-------|-----------|-----------------|----------|---------|-------|
| 80% training/20% testing | | | | | | 50% training/50% testing | | | | | | | | | |
| Score for Emotion | 0.38347545 | | | | | Best Score | 0.390598 | | | | | Delta (new-old) | 0.007123 | | |
| Accuracy for Emotion | 0.48879641 | | | | | Accuracy for Emotion | 0.484751 | | | | | | -0.00404 | | |
| Precision (Weighted) for Emotion | 0.4837059 | | | | | Precision (Weighted) for Emotion | 0.48579 | | | | | | 0.002084 | | |
| F1 Score (Weighted) for Emotion | 0.46375137 | | | | | F1 Score (Weighted) for Emotion | 0.453676 | | | | | | -0.01008 | | |
| F1 Score (Macro) for Emotion | 0.36344663 | | | | | F1 Score (Macro) for Emotion | 0.34276 | | | | | | -0.02069 | | |
| | precision | recall | f1-score | support | | precision | recall | f1-score | support | | precision | recall | f1-score | support | |
| | 0 | 0.54 | 0.62 | 0.58 | 2111 | 0 | 0.54 | 0.61 | 0.57 | 5237 | 0 | -0.01 | -0.01 | 3126 | |
| | 1 | 0.59 | 0.62 | 0.61 | 1213 | 1 | 0.58 | 0.59 | 0.59 | 3015 | -0.01 | -0.03 | -0.02 | 1802 | |
| | 2 | 0.48 | 0.37 | 0.42 | 1035 | 2 | 0.5 | 0.34 | 0.4 | 2615 | 0.02 | -0.03 | -0.02 | 1580 | |
| | 3 | 0.41 | 0.27 | 0.32 | 1684 | 3 | 0.41 | 0.25 | 0.31 | 4202 | 0 | -0.02 | -0.01 | 2518 | |
| | 4 | 0.39 | 0.24 | 0.3 | 2158 | 4 | 0.43 | 0.23 | 0.3 | 5652 | 0.04 | -0.01 | | 3494 | |
| | 5 | 0.37 | 0.3 | 0.33 | 681 | 5 | 0.41 | 0.29 | 0.34 | 1781 | 0.04 | -0.01 | 0.01 | 1100 | |
| | 6 | 0.46 | 0.28 | 0.35 | 1025 | 6 | 0.47 | 0.24 | 0.32 | 2490 | 0.01 | -0.04 | -0.03 | 1465 | |
| | 7 | 0.46 | 0.31 | 0.37 | 1172 | 7 | 0.49 | 0.3 | 0.37 | 2907 | 0.03 | -0.01 | | 1735 | |
| | 8 | 0.52 | 0.26 | 0.35 | 423 | 8 | 0.55 | 0.21 | 0.3 | 1049 | 0.03 | -0.05 | -0.05 | 626 | |
| | 9 | 0.48 | 0.22 | 0.3 | 919 | 9 | 0.44 | 0.18 | 0.26 | 2369 | -0.04 | -0.04 | -0.04 | 1450 | |
| | 10 | 0.43 | 0.3 | 0.35 | 1576 | 10 | 0.42 | 0.27 | 0.33 | 3918 | -0.01 | -0.03 | -0.02 | 2342 | |
| | 11 | 0.54 | 0.29 | 0.38 | 588 | 11 | 0.54 | 0.27 | 0.36 | 1484 | 0 | -0.02 | -0.02 | 896 | |
| | 12 | 0.46 | 0.16 | 0.23 | 276 | 12 | 0.58 | 0.12 | 0.19 | 725 | 0.12 | -0.04 | -0.04 | 449 | |
| | 13 | 0.43 | 0.19 | 0.26 | 583 | 13 | 0.46 | 0.19 | 0.26 | 1458 | 0.03 | 0 | 0 | 875 | |
| | 14 | 0.57 | 0.3 | 0.39 | 338 | 14 | 0.58 | 0.28 | 0.38 | 902 | 0.01 | -0.02 | -0.01 | 564 | |
| | 15 | 0.73 | 0.8 | 0.76 | 1408 | 15 | 0.74 | 0.8 | 0.77 | 3520 | 0.01 | 0 | 0.01 | 2112 | |
| | 16 | 0.2 | 0.01 | 0.02 | 81 | 16 | 0.2 | 0.01 | 0.01 | 178 | 0 | 0 | -0.01 | 97 | |
| | 17 | 0.5 | 0.36 | 0.42 | 910 | 17 | 0.47 | 0.31 | 0.37 | 2113 | -0.03 | -0.05 | -0.05 | 1203 | |
| | 18 | 0.65 | 0.62 | 0.63 | 1000 | 18 | 0.64 | 0.63 | 0.63 | 2428 | -0.01 | 0.01 | 0 | 1428 | |
| | 19 | 0.46 | 0.06 | 0.11 | 180 | 19 | 0.52 | 0.03 | 0.05 | 406 | 0.06 | -0.03 | -0.06 | 226 | |
| | 20 | 0.47 | 0.73 | 0.57 | 11089 | 20 | 0.45 | 0.76 | 0.57 | 27720 | -0.02 | 0.03 | 0 | 16631 | |
| | 21 | 0.51 | 0.4 | 0.45 | 903 | 21 | 0.5 | 0.35 | 0.41 | 2217 | -0.01 | -0.05 | -0.04 | 1314 | |
| | 22 | 0.56 | 0.06 | 0.11 | 141 | 22 | 0.39 | 0.03 | 0.05 | 354 | -0.17 | -0.03 | -0.06 | 213 | |
| | 23 | 0.38 | 0.18 | 0.25 | 981 | 23 | 0.43 | 0.17 | 0.24 | 2398 | 0.05 | -0.01 | -0.01 | 1417 | |
| | 24 | 0.41 | 0.07 | 0.12 | 154 | 24 | 0.52 | 0.03 | 0.06 | 380 | 0.11 | -0.04 | -0.06 | 226 | |
| | 25 | 0.59 | 0.32 | 0.41 | 299 | 25 | 0.58 | 0.27 | 0.37 | 768 | -0.01 | -0.05 | -0.04 | 469 | |
| | 26 | 0.44 | 0.31 | 0.36 | 743 | 26 | 0.49 | 0.3 | 0.37 | 1920 | 0.05 | -0.01 | 0.01 | 1177 | |
| | 27 | 0.48 | 0.34 | 0.4 | 693 | 27 | 0.51 | 0.33 | 0.4 | 1704 | 0.03 | -0.01 | 0 | 1011 | |
| | accuracy | | | 0.49 | 34364 | accuracy | | | 0.48 | 85910 | | | | -0.01 | 51546 |
| | macro | 0.48 | 0.32 | 0.36 | 34364 | macro_avg | 0.49 | 0.3 | 0.34 | 85910 | 0.01 | -0.02 | -0.02 | 51546 | |
| | weighted_avg | 0.48 | 0.49 | 0.46 | 34364 | weighted_i | 0.49 | 0.48 | 0.45 | 85910 | 0.01 | -0.01 | -0.01 | 51546 | |
| | | | | | | | | | | | | | | | |
| Best Score | 0.53839044 | | | | | Best estimator (Sentiment) | 0.543696 | | | | | 0.005306 | | | |
| Accuracy for Emotion | 0.61247235 | | | | | Accuracy for Emotion | 0.617332 | | | | | 0.00486 | | | |
| Precision (Weighted) for Emotion | 0.60704895 | | | | | Precision (Weighted) for Emotion | 0.612228 | | | | | 0.005179 | | | |
| F1 Score (Weighted) for Emotion | 0.60548715 | | | | | F1 Score (Weighted) for Emotion | 0.611357 | | | | | 0.00587 | | | |
| F1 Score (Macro) for Emotion | 0.57227864 | | | | | F1 Score (Macro) for Emotion | 0.57956 | | | | | 0.007282 | | | |
| | precision | recall | f1-score | support | | precision | recall | f1-score | support | | | | | | |
| | 0 | 0.55 | 0.33 | 0.41 | 3871 | | | | | | | | | | |
| | 1 | 0.61 | 0.6 | 0.6 | 7719 | 0 | 0.55 | 0.35 | 0.42 | 9499 | -0.06 | -0.25 | -0.18 | 1780 | |
| | 2 | 0.57 | 0.56 | 0.57 | 11089 | 1 | 0.62 | 0.61 | 0.61 | 19487 | 0.05 | 0.05 | 0.04 | 8398 | |
| | 3 | 0.66 | 0.76 | 0.71 | 11685 | 2 | 0.58 | 0.57 | 0.57 | 27720 | -0.08 | -0.19 | -0.14 | 16035 | |
| | | | | | | 3 | 0.66 | 0.75 | 0.71 | 29204 | 0 | -0.01 | 0 | 29204 | |
| | accuracy | | | 0.61 | 34364 | accuracy | | | 0.62 | 85910 | | | 0.01 | 51546 | |
| | macro avg | 0.6 | 0.56 | 0.57 | 34364 | macro_avg | 0.6 | 0.57 | 0.58 | 85910 | 0 | 0.01 | 0.01 | 51546 | |
| | weighted avg | 0.61 | 0.61 | 0.61 | 34364 | weighted_i | 0.61 | 0.62 | 0.61 | 85910 | 0 | 0.01 | 0 | 51546 | |

| DT Grid Search CV | | | | | | 50% training/50% testing | | | | | | Delta (new-old) | | | |
|----------------------------------|------------|--------|----------|---------|--|----------------------------------|-----------|--------|----------|---------|--|-----------------|--------|----------|---------|
| 80% training/20% testing | | | | | | 50% training/50% testing | | | | | | | | | |
| Score for Emotion | 0.59469212 | | | | | Best Score | 0.404464 | | | | | | | | |
| Accuracy for Emotion | 0.59469212 | | | | | Accuracy for Emotion | 0.505529 | | | | | | | | |
| Precision (Weighted) for Emotion | 0.61184786 | | | | | Precision (Weighted) for Emotion | 0.510401 | | | | | | | | |
| F1 Score (Weighted) for Emotion | 0.59152071 | | | | | F1 Score (Weighted) for Emotion | 0.464475 | | | | | | | | |
| F1 Score (Macro) for Emotion | 0.51684704 | | | | | F1 Score (Macro) for Emotion | 0.371004 | | | | | | | | |
| | precision | recall | f1-score | support | | | precision | recall | f1-score | support | | precision | recall | f1-score | support |
| 0 | 0.56 | 0.82 | 0.66 | 2101 | | 0 | 0.58 | 0.55 | 0.57 | 2101 | | 0.02 | -0.27 | -0.09 | 0 |
| 1 | 0.6 | 0.84 | 0.7 | 1255 | | 1 | 0.63 | 0.66 | 0.65 | 1255 | | 0.03 | -0.18 | -0.05 | 0 |
| 2 | 0.44 | 0.72 | 0.55 | 1022 | | 2 | 0.48 | 0.33 | 0.39 | 1022 | | 0.04 | -0.39 | -0.16 | 0 |
| 3 | 0.4 | 0.57 | 0.47 | 1682 | | 3 | 0.35 | 0.19 | 0.24 | 1682 | | -0.05 | -0.38 | -0.23 | 0 |
| 4 | 0.45 | 0.57 | 0.5 | 2208 | | 4 | 0.42 | 0.2 | 0.27 | 2208 | | -0.03 | -0.37 | -0.23 | 0 |
| 5 | 0.46 | 0.55 | 0.5 | 691 | | 5 | 0.4 | 0.2 | 0.26 | 691 | | -0.06 | -0.35 | -0.24 | 0 |
| 6 | 0.48 | 0.56 | 0.52 | 986 | | 6 | 0.45 | 0.23 | 0.31 | 986 | | -0.03 | -0.33 | -0.21 | 0 |
| 7 | 0.55 | 0.58 | 0.57 | 1172 | | 7 | 0.5 | 0.24 | 0.32 | 1172 | | -0.05 | -0.34 | -0.25 | 0 |
| 8 | 0.5 | 0.56 | 0.53 | 420 | | 8 | 0.49 | 0.28 | 0.36 | 420 | | -0.01 | -0.28 | -0.17 | 0 |
| 9 | 0.46 | 0.45 | 0.46 | 990 | | 9 | 0.44 | 0.16 | 0.23 | 990 | | -0.02 | -0.29 | -0.23 | 0 |
| 10 | 0.53 | 0.47 | 0.5 | 1512 | | 10 | 0.43 | 0.22 | 0.29 | 1512 | | -0.1 | -0.25 | -0.21 | 0 |
| 11 | 0.55 | 0.38 | 0.45 | 597 | | 11 | 0.54 | 0.23 | 0.33 | 597 | | -0.01 | -0.15 | -0.12 | 0 |
| 12 | 0.53 | 0.41 | 0.46 | 289 | | 12 | 0.56 | 0.21 | 0.3 | 289 | | 0.03 | -0.2 | -0.16 | 0 |
| 13 | 0.52 | 0.42 | 0.47 | 594 | | 13 | 0.55 | 0.2 | 0.3 | 594 | | 0.03 | -0.22 | -0.17 | 0 |
| 14 | 0.66 | 0.61 | 0.63 | 332 | | 14 | 0.64 | 0.38 | 0.48 | 332 | | -0.02 | -0.23 | -0.15 | 0 |
| 15 | 0.86 | 0.83 | 0.84 | 1386 | | 15 | 0.85 | 0.8 | 0.82 | 1386 | | -0.01 | -0.03 | -0.02 | 0 |
| 16 | 0.48 | 0.36 | 0.41 | 76 | | 16 | 0.38 | 0.11 | 0.16 | 76 | | -0.1 | -0.25 | -0.25 | 0 |
| 17 | 0.61 | 0.47 | 0.53 | 857 | | 17 | 0.55 | 0.34 | 0.42 | 857 | | -0.06 | -0.13 | -0.11 | 0 |
| 18 | 0.77 | 0.7 | 0.73 | 1047 | | 18 | 0.73 | 0.67 | 0.7 | 1047 | | -0.04 | -0.03 | -0.03 | 0 |
| 19 | 0.49 | 0.26 | 0.34 | 170 | | 19 | 0.65 | 0.15 | 0.25 | 170 | | 0.16 | -0.11 | -0.09 | 0 |
| 20 | 0.71 | 0.65 | 0.68 | 11029 | | 20 | 0.47 | 0.86 | 0.61 | 11029 | | -0.24 | 0.21 | -0.07 | 0 |
| 21 | 0.67 | 0.39 | 0.49 | 921 | | 21 | 0.61 | 0.3 | 0.4 | 921 | | -0.06 | -0.09 | -0.09 | 0 |
| 22 | 0.53 | 0.18 | 0.27 | 129 | | 22 | 0.67 | 0.06 | 0.11 | 129 | | 0.14 | -0.12 | -0.16 | 0 |
| 23 | 0.58 | 0.23 | 0.33 | 958 | | 23 | 0.47 | 0.1 | 0.16 | 958 | | -0.11 | -0.13 | -0.17 | 0 |
| 24 | 0.72 | 0.21 | 0.32 | 165 | | 24 | 0.48 | 0.1 | 0.16 | 165 | | -0.24 | -0.11 | -0.16 | 0 |
| 25 | 0.67 | 0.46 | 0.55 | 312 | | 25 | 0.59 | 0.48 | 0.53 | 312 | | -0.08 | 0.02 | -0.02 | 0 |
| 26 | 0.68 | 0.41 | 0.51 | 763 | | 26 | 0.6 | 0.26 | 0.37 | 763 | | -0.08 | -0.15 | -0.14 | 0 |
| 27 | 0.67 | 0.4 | 0.5 | 700 | | 27 | 0.52 | 0.32 | 0.4 | 700 | | -0.15 | -0.08 | -0.1 | 0 |
| accuracy | | | | 34364 | | accuracy | | | 0.51 | 34364 | | | | -0.08 | 0 |
| macro | 0.58 | 0.5 | 0.52 | 34364 | | macro_avg | 0.54 | 0.32 | 0.37 | 34364 | | -0.04 | -0.18 | -0.15 | 0 |
| weighted_avg | 0.61 | 0.59 | 0.59 | 34364 | | weighted_i | 0.51 | 0.51 | 0.46 | 34364 | | -0.1 | -0.08 | -0.13 | 0 |
| Best Score | 0.72081248 | | | | | Best estimator (Sentiment) | 0.515219 | | | | | -0.20559 | | | |
| Accuracy for Emotion | 0.72081248 | | | | | Accuracy for Emotion | 0.627197 | | | | | -0.09362 | | | |
| Precision (Weighted) for Emotion | 0.73241701 | | | | | Precision (Weighted) for Emotion | 0.673676 | | | | | -0.05874 | | | |
| F1 Score (Weighted) for Emotion | 0.72335867 | | | | | F1 Score (Weighted) for Emotion | 0.629506 | | | | | -0.09385 | | | |
| F1 Score (Macro) for Emotion | 0.70629159 | | | | | F1 Score (Macro) for Emotion | 0.603656 | | | | | -0.10264 | | | |
| | precision | recall | f1-score | support | | | precision | recall | f1-score | support | | | | | |
| 0 | 0.56 | 0.72 | 0.63 | 3816 | | 0 | 0.55 | 0.46 | 0.5 | 3816 | | -0.01 | -0.26 | -0.13 | 0 |
| 1 | 0.67 | 0.77 | 0.72 | 7745 | | 1 | 0.69 | 0.5 | 0.58 | 7745 | | 0.02 | -0.27 | -0.14 | 0 |
| 2 | 0.71 | 0.66 | 0.69 | 11029 | | 2 | 0.51 | 0.79 | 0.62 | 11029 | | -0.2 | 0.13 | -0.07 | 0 |
| 3 | 0.84 | 0.74 | 0.79 | 11774 | | 3 | 0.86 | 0.61 | 0.71 | 11774 | | 0.02 | -0.13 | -0.08 | 0 |
| accuracy | | | | 34364 | | accuracy | | | 0.63 | 34364 | | | | -0.09 | 0 |
| macro_avg | 0.7 | 0.72 | 0.71 | 34364 | | macro_avg | 0.65 | 0.59 | 0.6 | 34364 | | -0.05 | -0.13 | -0.11 | 0 |
| weighted_avg | 0.73 | 0.72 | 0.72 | 34364 | | weighted_i | 0.67 | 0.63 | 0.63 | 34364 | | -0.06 | -0.09 | -0.09 | 0 |

| MLP Grid Search CV | | | | | 50% training/50% testing | | | | | Delta (new-old) | | | | |
|----------------------------------|----------|----------|---------|-------|----------------------------------|----------|----------|---------|-------|-----------------|--------|----------|---------|--|
| 80% training/20% testing | | | | | 50% training/50% testing | | | | | | | | | |
| Best Score | 0.421342 | | | | Best Score | 0.41029 | | | | | | | | |
| Accuracy for Emotion | 0.421342 | | | | Accuracy for Emotion | 0.41029 | | | | | | | | |
| Precision (Weighted) for Emotion | 0.367309 | | | | Precision (Weighted) for Emotion | 0.332184 | | | | | | | | |
| F1 Score (Weighted) for Emotion | 0.340128 | | | | F1 Score (Weighted) for Emotion | 0.316989 | | | | | | | | |
| F1 Score (Macro) for Emotion | 0.201855 | | | | F1 Score (Macro) for Emotion | 0.177569 | | | | | | | | |
| precision | recall | f1-score | support | | precision | recall | f1-score | support | | precision | recall | f1-score | support | |
| 0 | 0.48 | 0.5 | 0.49 | 2120 | 0 | 0.41 | 0.48 | 0.44 | 5187 | -0.07 | -0.02 | -0.05 | 3067 | |
| 1 | 0.49 | 0.59 | 0.54 | 1226 | 1 | 0.51 | 0.56 | 0.53 | 3083 | 0.02 | -0.03 | -0.01 | 1857 | |
| 2 | 0.36 | 0.2 | 0.26 | 1075 | 2 | 0.33 | 0.07 | 0.12 | 2664 | -0.03 | -0.13 | -0.14 | 1589 | |
| 3 | 0.14 | 0.04 | 0.06 | 1586 | 3 | 0.18 | 0.01 | 0.02 | 4114 | 0.04 | -0.03 | -0.04 | 2528 | |
| 4 | 0.27 | 0.07 | 0.11 | 2277 | 4 | 0.3 | 0.04 | 0.07 | 5673 | 0.03 | -0.03 | -0.04 | 3396 | |
| 5 | 0.25 | 0 | 0 | 735 | 5 | 0.16 | 0.03 | 0.05 | 1744 | -0.09 | 0.03 | 0.05 | 1009 | |
| 6 | 0.33 | 0.07 | 0.11 | 953 | 6 | 0.23 | 0.07 | 0.1 | 2430 | -0.1 | 0 | -0.01 | 1477 | |
| 7 | 0.32 | 0.12 | 0.17 | 1162 | 7 | 0.19 | 0.09 | 0.13 | 2941 | -0.13 | -0.03 | -0.04 | 1779 | |
| 8 | 0.44 | 0.06 | 0.11 | 428 | 8 | 0.37 | 0.12 | 0.18 | 1028 | -0.07 | 0.06 | 0.07 | 600 | |
| 9 | 0 | 0 | 0 | 949 | 9 | 0 | 0 | 0 | 2312 | 0 | 0 | 0 | 1363 | |
| 10 | 0.17 | 0.06 | 0.09 | 1576 | 10 | 0.14 | 0.01 | 0.01 | 3863 | -0.03 | -0.05 | -0.08 | 2287 | |
| 11 | 0.51 | 0.03 | 0.06 | 620 | 11 | 0.51 | 0.09 | 0.15 | 1443 | 0 | 0.06 | 0.09 | 823 | |
| 12 | 1 | 0 | 0.01 | 292 | 12 | 0 | 0 | 0 | 754 | -1 | 0 | -0.01 | 462 | |
| 13 | 0.52 | 0.05 | 0.09 | 590 | 13 | 0.27 | 0.01 | 0.03 | 1519 | -0.25 | -0.04 | -0.06 | 929 | |
| 14 | 0.44 | 0.29 | 0.35 | 358 | 14 | 0 | 0 | 0 | 885 | -0.44 | -0.29 | -0.35 | 527 | |
| 15 | 0.73 | 0.8 | 0.76 | 1435 | 15 | 0.77 | 0.75 | 0.76 | 3546 | 0.04 | -0.05 | 0 | 2111 | |
| 16 | 0 | 0 | 0 | 76 | 16 | 0 | 0 | 0 | 183 | 0 | 0 | 0 | 107 | |
| 17 | 0.31 | 0.18 | 0.23 | 844 | 17 | 0.27 | 0.16 | 0.2 | 2161 | -0.04 | -0.02 | -0.03 | 1317 | |
| 18 | 0.57 | 0.6 | 0.58 | 1027 | 18 | 0.57 | 0.6 | 0.58 | 2505 | 0 | 0 | 0 | 1478 | |
| 19 | 0 | 0 | 0 | 138 | 19 | 0 | 0 | 0 | 407 | 0 | 0 | 0 | 269 | |
| 20 | 0.41 | 0.84 | 0.55 | 11027 | 20 | 0.4 | 0.87 | 0.55 | 27658 | -0.01 | 0.03 | 0 | 16631 | |
| 21 | 0.48 | 0.22 | 0.3 | 924 | 21 | 0.48 | 0.18 | 0.27 | 2316 | 0 | -0.04 | -0.03 | 1392 | |
| 22 | 0 | 0 | 0 | 132 | 22 | 0 | 0 | 0 | 350 | 0 | 0 | 0 | 218 | |
| 23 | 0 | 0 | 0 | 946 | 23 | 0 | 0 | 0 | 2328 | 0 | 0 | 0 | 1382 | |
| 24 | 0 | 0 | 0 | 161 | 24 | 0 | 0 | 0 | 400 | 0 | 0 | 0 | 239 | |
| 25 | 0.33 | 0.36 | 0.35 | 280 | 25 | 0.38 | 0.41 | 0.4 | 769 | 0.05 | 0.05 | 0.05 | 489 | |
| 26 | 0.27 | 0.23 | 0.25 | 753 | 26 | 0.25 | 0.15 | 0.19 | 1941 | -0.02 | -0.08 | -0.06 | 1188 | |
| 27 | 0.36 | 0.12 | 0.18 | 674 | 27 | 0.26 | 0.16 | 0.2 | 1706 | -0.1 | 0.04 | 0.02 | 1032 | |
| accuracy | | | 0.42 | 34364 | accuracy | | | 0.41 | 85910 | 0 | 0 | -0.01 | 51546 | |
| macro | 0.33 | 0.19 | 0.2 | 34364 | macro | 0.25 | 0.17 | 0.18 | 85910 | -0.08 | -0.02 | -0.02 | 51546 | |
| weighted | 0.37 | 0.42 | 0.34 | 34364 | weighted | 0.33 | 0.41 | 0.32 | 85910 | -0.04 | -0.01 | -0.02 | 51546 | |
| | | | | | | | | | | | | | | |
| Best Score | 0.554266 | | | | Best estimator (Sentiment) | 0.554266 | | | | 0 | | | | |
| Accuracy for Emotion | 0.554266 | | | | Accuracy for Emotion | 0.554266 | | | | 0 | | | | |
| Precision (Weighted) for Emotion | 0.551942 | | | | Precision (Weighted) for Emotion | 0.551942 | | | | 0 | | | | |
| F1 Score (Weighted) for Emotion | 0.549862 | | | | F1 Score (Weighted) for Emotion | 0.549862 | | | | 0 | | | | |
| F1 Score (Macro) for Emotion | 0.506429 | | | | F1 Score (Macro) for Emotion | 0.506429 | | | | 0 | | | | |
| precision | recall | f1-score | support | | precision | recall | f1-score | support | | precision | recall | f1-score | support | |
| 0 | 0.41 | 0.25 | 0.31 | 9405 | 0 | 0.41 | 0.25 | 0.31 | 9405 | 0 | 0 | 0 | 0 | |
| 1 | 0.54 | 0.52 | 0.53 | 19335 | 1 | 0.54 | 0.52 | 0.53 | 19335 | 0 | 0 | 0 | 0 | |
| 2 | 0.48 | 0.56 | 0.52 | 27658 | 2 | 0.48 | 0.56 | 0.52 | 27658 | 0 | 0 | 0 | 0 | |
| 3 | 0.67 | 0.67 | 0.67 | 29512 | 3 | 0.67 | 0.67 | 0.67 | 29512 | 0 | 0 | 0 | 0 | |
| accuracy | | | 0.55 | 85910 | accuracy | | | 0.55 | 85910 | | | 0 | 0 | |
| macro avg | 0.53 | 0.5 | 0.51 | 85910 | macro avg | 0.53 | 0.5 | 0.51 | 85910 | 0 | 0 | 0 | 0 | |
| weighted avg | 0.55 | 0.55 | 0.55 | 85910 | weighted avg | 0.55 | 0.55 | 0.55 | 85910 | 0 | 0 | 0 | 0 | |