

Test size: 0.8

Model: top_DecisionTree_2.5

HyperParams:

```
{
  "criterion": [
    "entropy"
  ],
  "max_depth": [
    600,
    800
  ],
  "min_samples_split": [
    4,
    6,
    8
  ]
}
```

Classifications: Emotions

Confusion Matrix:

View Visual matrix at:

[./precision/confusion_matrix_figures/top_DecisionTree_2.5_emotions_0.png](/precision/confusion_matrix_figures/top_DecisionTree_2.5_emotions_0.png)

```
[[ 3400  134   81  212  522  70   85  123  45   63  132  46
    10  187  22  190   2  254  349   1 2226  88  14   32
    10   3  15  90]
 [ 286 2136   85  155  171  45   56  48  28  52 121  30
    10  78  22  38   0 206  50   2 1203  17   0  40
     4   7   9  30]
 [ 175  67  780  408  193  54   80  108  19 100 164 141
    20  24  23  17   1  21  20  11 1663  29   2  25
     1   9  31  27]
 [ 316 187  496  709  396 105  180  223  33 164 351 194
    41  43  46  49   2  72  65  20 2727  42   4  61
     7  15  62  55]
 [ 809 210  198  450 1203 198  197  213  68 158 327 103
    31  66  44  77   5 115 165  23 4032  98   4  91
     8  18  48  54]
 [ 195  39  69 146  250 328  50  59  37  46  78  32
     8  15   9  45   0  55  42  26 1121  73   3  13
     9  42  25   7]
 [ 139  78 103  200  231  51  466  352  19  48 135  41
    13  23  15  14   1  36  38   8 1782  19   1  49
     3   9  19  45]
 [ 203  82 129  208  241  81  350  788  31  48 134  36
    14  66  19  19   3  45  60   5 1981  22   1  46
     2   6  17  62]
 [  93  47  42  65 126  41  32  54  353  32  48   8
     2  27  10  12   1  19  46   3  575  85   1  10
     1   8   7   2]
 [ 176  85 166  304  258  55  84  107  38 228 212  87
    24  27  32  26   2  38  44  27 1482  35   3  52
     4  38  95  32]
 [ 232 123  244  474  467  95 141  136  32 145 643 105
```

27 44 27 38 1 49 56 18 28 18 36 2 69
 4 32 40 42]
 [96 53 193 234 128 28 54 37 13 49 105 313
 20 6 18 5 0 13 18 8 852 20 1 19
 2 9 20 12]
 [62 27 40 90 78 8 27 18 7 33 38 48
 58 3 10 7 1 5 16 5 506 8 0 21
 2 21 11 10]
 [274 68 52 92 144 30 39 84 18 28 38 26
 4 326 27 48 0 112 67 2 813 34 2 20
 4 1 4 60]
 [65 32 41 87 81 32 22 32 5 36 56 25
 7 4 166 4 0 12 9 24 616 11 0 13
 1 1 12 12]
 [348 29 30 74 96 69 24 23 16 20 22 9
 6 52 3 4063 2 103 44 1 417 76 0 20
 28 59 11 6]
 [12 7 7 22 6 9 4 6 3 16 8 4
 2 0 4 1 12 4 2 3 124 0 1 4
 0 17 6 2]
 [370 330 39 119 182 61 42 38 26 50 52 17
 5 159 10 132 0 611 168 1 933 32 3 15
 21 2 8 12]
 [511 62 38 71 146 28 33 48 28 22 49 5
 1 40 6 36 0 106 2071 0 653 22 0 9
 1 2 6 8]
 [20 12 26 56 48 19 19 21 6 23 28 5
 5 5 13 2 0 6 5 39 243 7 0 3
 2 4 14 3]
 [2384 1002 1318 2297 3156 752 1136 1445 355 795 1581 526
 162 410 252 277 26 511 666 97 23375 421 37 436
 37 113 268 313]
 [276 69 61 155 261 178 68 81 137 51 95 24
 11 38 12 37 0 74 53 5 1132 751 6 23
 2 7 15 16]
 [106 13 13 19 50 14 7 9 5 8 17 3
 1 7 2 10 1 23 8 1 229 9 3 2
 3 0 3 1]
 [219 108 108 223 332 52 123 112 25 89 168 35
 25 50 26 17 3 33 52 13 1742 32 1 103
 5 18 27 57]
 [54 15 12 32 61 28 12 7 1 14 17 3
 0 5 2 42 0 37 6 0 224 8 0 3
 31 0 3 4]
 [47 13 26 36 49 20 21 12 8 63 22 16
 29 3 3 37 1 5 3 4 252 5 1 30
 1 394 68 4]
 [119 49 116 166 186 68 40 52 27 165 122 53
 20 18 25 36 10 32 24 21 1119 27 2 22
 2 185 382 8]
 [196 64 74 140 135 30 72 101 10 38 67 28
 11 123 44 27 0 33 17 5 1040 13 2 34
 2 5 12 436]]

Classssification Report:

View formatted classification report at:

[./precision/classification_reports/top_DecisionTree_2.5_0.txt](#)

	precision	recall	f1-score	support
admiration	0.30	0.40	0.35	8406
amusement	0.42	0.43	0.42	4929
anger	0.17	0.19	0.18	4213
annoyance	0.10	0.11	0.10	6665
approval	0.13	0.13	0.13	9013
caring	0.13	0.12	0.12	2822
confusion	0.13	0.12	0.13	3938
curiosity	0.18	0.17	0.17	4699
desire	0.25	0.20	0.22	1750
disappointment	0.09	0.06	0.07	3761
disapproval	0.13	0.10	0.12	6140
disgust	0.16	0.13	0.15	2326
embarrassment	0.10	0.05	0.07	1160
excitement	0.18	0.13	0.15	2417
fear	0.19	0.12	0.14	1406
gratitude	0.77	0.72	0.74	5651
grief	0.16	0.04	0.07	286
joy	0.23	0.18	0.20	3438
love	0.50	0.52	0.51	4002
nervousness	0.10	0.06	0.08	634
neutral	0.42	0.53	0.47	44148
optimism	0.37	0.21	0.27	3638
pride	0.03	0.01	0.01	567
realization	0.08	0.03	0.04	3798
relief	0.16	0.05	0.08	621
remorse	0.38	0.34	0.36	1173
sadness	0.31	0.12	0.18	3096
surprise	0.31	0.16	0.21	2759
accuracy		0.32		137456
macro avg	0.23	0.19	0.20	137456
weighted avg	0.30	0.32	0.31	137456

Classifications: Emotions

Confusion Matrix:

View Visual matrix at:

[./precision/confusion_matrix_figures/top_DecisionTree_2.5_sentiments_0.png](#)

```
[[ 4499 2709 5380 2606]
 [ 3023 13550 9440 4847]
 [ 5237 8883 20723 9305]
 [ 3117 5527 11777 26833]]
```

Classsification Report:

View formatted classification report at:

[./precision/classification_reports/top_DecisionTree_2.5_1.txt](#)

	precision	recall	f1-score	support
ambiguous	0.28	0.30	0.29	15194
negative	0.44	0.44	0.44	30860
neutral	0.44	0.47	0.45	44148
positive	0.62	0.57	0.59	47254
accuracy			0.48	137456
macro avg	0.44	0.44	0.44	137456
weighted avg	0.48	0.48	0.48	137456