

Test size: 0.8

Model: base_DecisionTree_2.5

HyperParams:

Classifications: Emotions

Confusion Matrix:

View Visual matrix at:

[./precision/confusion_matrix_figures/base_DecisionTree_2.5_emotions_0.png](/precision/confusion_matrix_figures/base_DecisionTree_2.5_emotions_0.png)

```
[[ 3581  115   63  156  569   71  105   84   58   54  134   31
    19  211   17  277   8  301  402   8 1743  113   32   59
    32   4   33  126]
 [ 179 2188   96  153  155   45   71   47   20   40  105   32
    15  103   29   65   0  301   70   2 1005   29   3   47
    10   8   22   89]
 [  92   66  903  471  145   57   97   74   26   93  191  152
    15   28   44   18   5   31   60   9 1424   48   8   48
     4   12   38   54]
 [ 180  187  517  781  398   81  202  176   54  220  419  199
    56  42   74   55   3   67   92   17 2369   74   7  111
    13  26  141  104]
 [ 640  148  150  338 1425  212  221  170  117  191  365  100
    59 110   47  107   5  176  206  47 3542  177   17  196
    37  26   91   93]
 [ 116   29   55  128  221  370   60   51   44   63   95   18
    15  22   21   60   5   70   78   37 1003  128   8   22
    15  36  41   11]
 [ 101   64   70  168  196   35  657  347   19   86  171   42
    24  35  23  23   7  27  48  10 1561   23   4   73
     7  13  30  74]
 [ 158   75  110  166  180   48  399  986   41   65   95   34
    26  70  33  21   8  35  70  18 1817   32   3   58
     9  15  21 106]
 [  80   39   36   50  133   41   33   51  374   35   38   10
     8  35   5  20   3  33  49   5  516  97   1   29
     2   6  16   5]
 [ 104   80  131  258  213   58   94   66   25  357  237  104
    41  30  42  31   6  45  46  31 1329   59   5   79
    12  47 176  55]
 [ 147  120  195  450  434  106  181  111   51  208  890  119
    31  32  36  40   3  50  66  17 2437   75  13  110
     6  33 113  66]
 [  68   35  172  239  111   18   54   34   8   93  111  421
    38  11  53  11   3   9  26  12  685  26   2   31
     4  11  23  17]
 [  37   25   39   98  48  12  36  19   7  41  59  33
   123   6  14   8   4   9  18  12  392  16   3   30
     3  20  20  28]
 [ 249   75  41  70  134  19  34  79  28  24  22  22
     6 381   7  50   1 136  77   6  741  55   5  30
     8   4  14  99]
 [  37   23   35   73  67  21  23  24  12  19  53  44
     7   3 373   5   2  11  10  22  447  26   0  19
     4   4  31  11]
```

```

[ 344  24  20  69 114  63  24  20  14  22  23  4
  8 72  5 4054  4 114  42  2 381  77  6 12
 47 52 23 11]
[  7  4  7 17  5  6  5  3  3 18 12  4
  5  0  9  5 15  4  5  1 108  1  1 11
  0 12 17  1]
[ 308 319  27  60 202  74  40  46  29  34  51 14
 10 163 15 119  2 674 207  9 806 38 23 53
 54  3 26 32]
[ 410  59  31  48 169  54  21  31  30  29  36  4
  0 40  3 43  2 178 2127  4 573 38  4 16
  5  5 32 10]
[ 19  5 20 42 33 20 16 15  8 35 31  9
  7  9 32  6  1  9  3 53 205 12  2  7
  2  3 26  4]
[1916 887 1064 2064 3171 827 1406 1415 467 942 1877 527
217 529 308 387 46 578 795 151 21662 614 108 812
115 149 574 540]
[ 220  60  39 100 284 148  81  77 187  59 106 20
 12 59 17 54  2 90 41 10 1027 793 17 62
  7  9 41 16]
[ 94 13 17 10 48  9  8 11  5  6 10  7
  3 15  1 10  1 30 13  0 200 15 17  9
  5  1  6  3]
[ 131  81  77 174 298  69 112 111  31 126 185 44
 26 47 22 24  4 53 36 20 1652 62  9 223
16 26 55 84]
[ 46  8  7 16 73 29  6  9 11 12 17  4
  0  2  4 32  1 53  8  2 191 13  5 10
 53  0  7  2]
[ 25 12 11 50 40 41 29 20  8 43 46  7
 49  2  5 49  7  4  8  5 207  7  1 22
  4 368 97  6]
[ 71 35 74 183 122 80 58 47 22 220 129 56
 30 10 43 44 25 25 33 17 916 40  4 44
  5 189 557 17]
[ 144  54  71 113 114 22 107 88 13 44 87 34
 21 118 30 15  2 47 20  6 870 35  2 62
  5  4 28 603]]

```

Classssification Report:

View formatted classification report at:

./precision/classification_reports/base_DecisionTree_2.5_0.txt
precision recall f1-score support

admiration	0.38	0.43	0.40	8406
amusement	0.45	0.44	0.45	4929
anger	0.22	0.21	0.22	4213
annoyance	0.12	0.12	0.12	6665
approval	0.16	0.16	0.16	9013
caring	0.14	0.13	0.14	2822
confusion	0.16	0.17	0.16	3938
curiosity	0.23	0.21	0.22	4699
desire	0.22	0.21	0.22	1750

disappointment	0.11	0.09	0.10	3761
disapproval	0.16	0.14	0.15	6140
disgust	0.20	0.18	0.19	2326
embarrassment	0.14	0.11	0.12	1160
excitement	0.17	0.16	0.17	2417
fear	0.28	0.27	0.27	1406
gratitude	0.72	0.72	0.72	5651
grief	0.09	0.05	0.07	286
joy	0.21	0.20	0.20	3438
love	0.46	0.53	0.49	4002
nervousness	0.10	0.08	0.09	634
neutral	0.43	0.49	0.46	44148
optimism	0.29	0.22	0.25	3638
pride	0.05	0.03	0.04	567
realization	0.10	0.06	0.07	3798
relief	0.11	0.09	0.10	621
remorse	0.34	0.31	0.33	1173
sadness	0.24	0.18	0.21	3096
surprise	0.27	0.22	0.24	2759
accuracy		0.33		137456
macro avg	0.23	0.22	0.23	137456
weighted avg	0.31	0.33	0.32	137456

Classifications: Emotions

Confusion Matrix:

View Visual matrix at:

[./precision/confusion_matrix_figures/base_DecisionTree_2.5_sentiments_0.png](#)

```
[[ 4633 2652 5337 2572]
 [ 2819 14001 9344 4696]
 [ 5013 8972 20816 9347]
 [ 2958 5251 11829 27216]]
```

Classsification Report:

View formatted classification report at:

[./precision/classification_reports/base_DecisionTree_2.5_1.txt](#)

	precision	recall	f1-score	support
ambiguous	0.30	0.30	0.30	15194
negative	0.45	0.45	0.45	30860
neutral	0.44	0.47	0.46	44148
positive	0.62	0.58	0.60	47254
accuracy			0.48	137456
macro avg	0.45	0.45	0.45	137456
weighted avg	0.49	0.48	0.49	137456