

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](#)

```
[[ 3862  176   92  189  465  120  172   91   24   87  138   61
    23  154  112  317    0  306  479   10 2090  139   46   76
    21    8   50  164]
 [ 208 2343   90  151  136   37   95   39   11   46   79   35
    15   86   63   72    1  326   84    4 1296   39    3   64
    11   13   22  162]
 [ 110   65  942  364  181   59  119   99   17  131  206  139
    21   37   99   24    5   41   72   11 1700   41    8   56
     6   17   51   36]
 [ 237  201  561  634  415  108  224  188   60  223  415  245
    50   67   98   81    5   88  106   18 2948   94   14  146
    11   41  114   82]
 [ 715  195  196  434 1293  195  193  206  102  217  403  136
    30  130  100  120   10  194  218   38 4307  201   16  205
    35   31  110  117]
 [ 117   42   43  151  233  375   41   78   29   90  102   18
     7   21   24   54    5   76   87   24 1255  126    3   39
    12   34   58   16]
 [ 122   80   79  215  209   48  544  303   15   72  191   50
    27   40   67   24    2   43   70    8 1918   66    8  104
     4   17   47   62]
 [ 166   89  113  210  200   64  391  780   34   85  156   68
    18   62   59   27    5   54   85   10 2385   52    8   84
     5   12   26   77]
 [  84   41   45   74  102   32   37   33  402   25   56   14
     3   27   10   27    1   39   61    4  640  114    3   29
     3    6   18   15]
 [ 138   73  162  218  203   86  120   97   33  283  236  109
    43   45   48   44    7   55   43   18 1716   56    5  104
     9   45  164   72]
 [ 202  126  219  385  395  121  237  157   40  203  707  152
    34   54   68   55    7   71   67   21 3175   88    5  118
     8   44   90   98]
 [  75   35  198  185   95   28   50   34   13   81  114  497
    46   19   64   13    3   23   29   13  843   30    3   47
     2   15   18   21]
 [  56   35   36  120   51   19   33   36    9   31   48   59
    88   11   19   10    3   13   14    8  479   13    3   36
     3   26   17   24]
 [ 314   70   60   69  155   22   50   58   14   51   42   25
     4  321   55   71    1  193   86    5  836   64    5   30
     8    5   17  87]
 [  37   32   29   59   74   33   21   39    5   60   47   47
     7    5  384    5    3   15    5   14  549   29    0   35
     3    3   28  35]
 [ 372   41   32  114  127  103   24   13    7   24   33    6
```

```

5 32 22 4585 6 162 34 0 400 107 5 16
19 54 17 13]
[ 14 6 9 10 13 6 4 9 3 16 7 7
6 2 13 3 12 8 5 1 123 1 0 8
1 13 13 2]
[ 393 341 34 76 152 53 46 45 20 56 53 17
7 108 35 156 3 881 206 4 967 55 13 44
34 2 22 60]
[ 373 55 34 52 181 40 34 32 17 30 92 6
16 77 7 36 2 205 2404 4 647 42 0 20
6 4 30 16]
[ 8 6 19 42 34 15 22 13 6 35 33 14
5 9 26 5 0 9 7 50 290 15 1 12
1 7 26 4]
[ 1974 993 1163 2142 2997 847 1431 1375 397 1048 2035 627
185 545 1265 533 52 765 977 132 24947 786 127 933
99 151 578 623]
[ 215 60 54 131 224 144 82 93 162 104 103 31
10 71 23 79 8 99 60 3 1303 876 9 50
14 6 39 29]
[ 88 8 17 12 36 10 14 8 2 9 14 8
1 10 9 19 0 36 9 0 232 16 38 13
3 1 11 4]
[ 159 94 89 151 314 63 126 113 32 113 210 52
21 48 34 35 6 66 58 18 1957 58 7 243
18 26 63 104]
[ 55 11 12 21 59 26 10 10 7 12 14 3
0 1 9 57 1 60 10 1 252 18 1 11
30 0 5 10]
[ 14 27 17 79 49 29 26 15 11 38 30 7
17 1 12 96 12 13 10 3 294 8 6 14
2 393 112 10]
[ 85 51 73 169 164 68 49 47 20 182 119 56
27 20 52 63 13 42 40 11 1209 35 7 61
8 186 574 37]
[ 198 57 73 97 140 25 122 78 20 62 92 47
14 89 60 23 1 57 33 9 1101 24 0 67
5 5 22 596]]

```

Classsification Report:

View formatted classification report at:

[./precision/classification_reports/base_DecisionTree_2.5_0.txt](#)

	precision	recall	f1-score	support
admiration	0.37	0.41	0.39	9472
amusement	0.44	0.42	0.43	5531
anger	0.21	0.20	0.21	4657
annoyance	0.10	0.08	0.09	7474
approval	0.15	0.13	0.14	10147
caring	0.14	0.12	0.13	3160
confusion	0.13	0.12	0.12	4435
curiosity	0.19	0.15	0.17	5325
desire	0.27	0.21	0.23	1945
disappointment	0.08	0.07	0.07	4232

disapproval	0.12	0.10	0.11	6947
disgust	0.20	0.19	0.19	2594
embarrassment	0.12	0.07	0.09	1300
excitement	0.15	0.12	0.13	2718
fear	0.14	0.24	0.17	1603
gratitude	0.69	0.72	0.71	6373
grief	0.07	0.04	0.05	315
joy	0.22	0.23	0.23	3883
love	0.45	0.54	0.49	4462
nervousness	0.11	0.07	0.09	714
neutral	0.42	0.50	0.46	49727
optimism	0.27	0.21	0.24	4082
pride	0.11	0.06	0.08	628
realization	0.09	0.06	0.07	4278
relief	0.08	0.04	0.06	706
remorse	0.34	0.29	0.31	1345
sadness	0.25	0.17	0.20	3468
surprise	0.23	0.19	0.21	3117
accuracy		0.32		154638
macro avg	0.22	0.21	0.21	154638
weighted avg	0.30	0.32	0.30	154638

Classifications: Emotions

Confusion Matrix:

View Visual matrix at:

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

```
[[ 4189 3386 6146 3434]
 [ 3177 14668 10762 6042]
 [ 4947 11500 22054 11226]
 [ 3221 6535 12693 30658]]
```

Classsification Report:

View formatted classification report at:

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

	precision	recall	f1-score	support
ambiguous	0.27	0.24	0.26	17155
negative	0.41	0.42	0.41	34649
neutral	0.43	0.44	0.44	49727
positive	0.60	0.58	0.59	53107
accuracy			0.46	154638
macro avg	0.42	0.42	0.42	154638
weighted avg	0.46	0.46	0.46	154638