

Model: base_DecisionTree

HyperParams:

Classifications: Emotions

Confusion Matrix:

View Visual matrix at:

[./precision/confusion_matrix_figures/base_DecisionTree_emotions_0.png](#)

```
[[1197 46 19 46 130 23 12 19 13 16 14 7 4 49
  7 76 1 49 83 3 252 26 7 11 3 1 1 19]
 [ 59 699 19 45 44 7 7 11 9 7 18 6 5 20
  3 8 1 42 15 1 174 6 0 8 0 2 3 14]
 [ 20 26 379 165 33 12 20 25 3 32 41 40 4 7
  9 2 1 5 1 0 206 2 0 10 0 4 4 11]
 [ 54 63 231 377 106 25 44 36 12 76 90 58 14 10
  9 4 4 14 10 3 386 10 0 10 2 7 17 16]
 [197 47 56 140 619 70 45 42 38 50 61 18 11 25
  7 26 1 38 38 4 611 28 1 22 7 4 6 14]
 [ 42 13 21 44 75 160 10 12 8 16 20 0 3 3
  4 14 4 12 12 1 140 26 0 5 0 9 12 3]
 [ 21 28 28 53 47 11 292 119 7 18 26 5 5 10
  6 5 0 3 10 3 238 4 0 13 1 0 1 11]
 [ 28 18 33 63 51 11 166 394 9 10 20 2 4 16
  8 6 0 3 8 0 260 5 2 3 1 2 1 19]
 [ 19 11 9 17 37 12 9 10 121 11 7 1 2 15
  2 3 1 5 9 2 104 20 0 5 1 1 3 2]
 [ 25 19 50 112 62 22 19 14 9 172 57 30 5 5
  11 4 1 8 8 10 244 1 1 13 3 7 42 16]
 [ 31 34 95 162 122 21 70 24 7 83 363 25 12 6
  10 9 4 9 5 1 373 15 0 20 1 5 21 9]
 [ 12 19 69 101 31 3 10 3 3 30 42 129 5 4
  17 3 1 2 1 1 89 3 0 3 1 2 1 0]
 [ 7 7 20 34 23 6 12 6 3 16 11 12 45 1
  2 5 0 3 2 1 73 1 0 3 0 6 1 3]
 [ 77 36 17 20 34 4 10 30 8 6 6 3 1 116
  1 9 0 36 11 4 131 8 1 6 1 0 3 18]
 [ 6 7 14 22 16 4 3 6 3 14 10 14 3 2
  126 1 1 1 1 7 46 1 0 3 1 0 3 2]
 [112 12 4 17 35 24 2 9 2 7 8 1 1 14
  0 1039 0 23 7 0 57 10 3 2 6 11 2 1]
 [ 4 0 1 4 4 1 2 1 1 4 1 1 0 0
  2 0 5 0 0 0 14 0 1 2 0 2 8 0]
 [101 107 9 18 49 14 3 9 8 5 6 2 1 45
  6 27 3 215 48 0 114 4 3 3 6 1 5 2]
 [149 23 1 12 49 21 7 6 19 7 7 5 1 15
  4 12 0 47 517 1 85 5 0 3 0 3 3 2]
 [ 3 3 8 17 15 15 4 4 1 16 6 3 2 0
  15 1 0 0 0 25 37 1 0 0 0 0 8 3]
 [558 334 402 698 1049 265 411 417 150 276 516 117 51 147
  88 82 13 149 114 44 4754 97 6 129 14 30 77 79]
 [ 74 15 17 34 92 41 22 12 45 18 20 1 2 12
  6 19 2 21 13 0 204 216 2 6 4 2 7 7]
 [ 40 5 3 7 16 4 3 0 1 3 3 0 1 3
  2 2 0 6 0 0 43 6 5 1 1 0 2 0]
```

```
[ 54 49 28 72 112 24 26 10 10 36 45 4 5 6
 10 10 2 15 8 2 34 1 8 0 64 1 9 6 15]
[ 20 4 2 7 24 13 2 2 0 2 2 0 0 1
 0 9 0 12 3 0 32 2 0 2 16 0 1 0]
[ 5 4 5 17 19 11 10 3 3 26 3 1 7 1
 0 12 5 0 1 0 34 1 0 4 0 82 17 1]
[ 18 14 31 67 54 23 13 3 9 87 49 16 13 6
 15 5 4 3 3 8 134 2 1 16 0 55 145 1]
[ 62 16 23 31 37 5 23 39 4 19 19 9 8 32
 7 4 1 16 2 1 164 4 0 10 0 0 4 151]]
```

Classsification Report:

View formatted classification report at:

[./precision/classification_reports/base_DecisionTree_0.txt](#)

	precision	recall	f1-score	support
admiration	0.40	0.56	0.47	2134
amusement	0.42	0.57	0.48	1233
anger	0.24	0.36	0.29	1062
annoyance	0.16	0.22	0.18	1688
approval	0.21	0.28	0.24	2226
caring	0.19	0.24	0.21	669
confusion	0.23	0.30	0.26	965
curiosity	0.31	0.34	0.33	1143
desire	0.24	0.28	0.26	439
disappointment	0.16	0.18	0.17	970
disapproval	0.25	0.24	0.24	1537
disgust	0.25	0.22	0.24	585
embarrassment	0.21	0.15	0.17	303
excitement	0.20	0.19	0.20	597
fear	0.33	0.40	0.36	317
gratitude	0.74	0.74	0.74	1409
grief	0.09	0.09	0.09	58
joy	0.29	0.26	0.28	814
love	0.56	0.51	0.53	1004
nervousness	0.20	0.13	0.16	187
neutral	0.51	0.43	0.47	11067
optimism	0.42	0.24	0.30	914
pride	0.15	0.03	0.05	157
realization	0.17	0.07	0.09	972
relief	0.23	0.10	0.14	156
remorse	0.33	0.30	0.32	272
sadness	0.36	0.18	0.24	795
surprise	0.36	0.22	0.27	691
accuracy		0.36		34364
macro avg	0.29	0.28	0.28	34364
weighted avg	0.38	0.36	0.36	34364

Classifications: Emotions

Confusion Matrix:

View Visual matrix at:

[./precision/confusion_matrix_figures/base_DecisionTree_sentiments_0.png](#)

```
[[1770 592 908 501]
```

```
 [ 888 4650 1521 715]
```

```
 [1603 2518 5230 1716]
```

```
 [ 857 1327 2514 7054]]
```

Classsification Report:

View formatted classification report at:

[./precision/classification_reports/base_DecisionTree_1.txt](#)

	precision	recall	f1-score	support
ambiguous	0.35	0.47	0.40	3771
negative	0.51	0.60	0.55	7774
neutral	0.51	0.47	0.49	11067
positive	0.71	0.60	0.65	11752
accuracy		0.54		34364
macro avg	0.52	0.54	0.52	34364
weighted avg	0.56	0.54	0.55	34364