

Model: base_MLP

HyperParams:

Classifications: Emotions

Confusion Matrix:

View Visual matrix at:

[./precision/confusion_matrix_figures/base_MLP_emotions_0.png](#)

```
[[1145 24 12 5 39 6 2 9 15 6 8 9 2 23
  6 47 0 51 96 0 565 19 1 4 0 0 2 38]
 [ 34 724 9 12 4 0 2 3 1 1 8 1 3 4
  2 9 0 37 15 0 332 4 0 1 0 5 5 17]
 [ 5 14 305 77 10 3 5 6 1 7 24 25 2 1
  8 5 0 7 3 0 526 2 0 3 0 4 9 10]
 [ 34 46 117 150 32 4 10 21 10 13 52 46 6 6
  12 8 0 8 15 1 1034 11 0 8 0 6 16 22]
 [ 123 30 12 29 256 26 18 10 16 12 36 11 1 9
  5 22 0 27 48 1 1476 22 0 11 1 7 9 8]
 [ 24 7 8 9 13 83 3 4 4 3 8 4 0 0
  4 13 0 13 13 1 402 25 0 1 1 14 10 2]
 [ 15 18 13 11 6 4 121 48 1 2 17 5 0 2
  4 8 0 5 12 0 641 0 0 15 0 2 4 11]
 [ 19 14 7 11 12 3 21 179 4 5 11 4 3 7
  7 6 0 5 12 1 771 4 0 4 0 2 4 27]
 [ 7 9 1 3 5 5 1 1 113 1 0 1 0 3
  2 1 0 5 22 0 235 21 0 0 0 1 1 1]
 [ 14 16 23 24 20 4 4 3 5 83 26 19 9 0
  10 8 0 5 7 2 590 6 0 6 0 12 59 15]
 [ 20 28 23 43 37 9 31 4 4 18 159 22 7 3
  14 11 0 9 10 0 1031 11 0 7 0 13 14 9]
 [ 7 11 46 38 7 0 1 1 1 11 17 165 8 0
  14 1 0 1 2 0 234 3 0 0 1 1 8 7]
 [ 4 5 7 16 6 4 3 1 0 2 7 10 47 1
  3 2 0 1 4 0 166 1 0 1 0 7 1 4]
 [ 60 18 10 3 9 0 3 15 0 1 3 1 0 67
  1 12 0 43 17 2 294 7 0 2 0 0 5 24]
 [ 3 5 3 4 2 3 0 1 0 2 4 6 2 0
  138 2 0 0 0 3 128 5 0 2 0 0 4 0]
 [ 99 7 1 1 5 9 2 1 1 2 1 0 0 0
  0 1097 0 37 10 0 95 16 0 2 1 18 3 1]
 [ 1 0 2 0 2 1 0 0 0 0 1 0 0 0
  4 2 0 0 0 0 32 0 0 0 0 2 9 2]
 [ 75 97 4 4 14 4 0 5 3 2 3 0 0 13
  4 27 0 234 58 0 249 4 0 2 1 1 3 7]
 [ 65 15 2 2 2 3 0 2 1 0 4 0 0 1
  1 8 0 25 645 0 214 5 0 1 0 2 2 4]
 [ 3 1 4 7 2 6 0 0 0 6 3 2 1 2
  16 1 0 1 0 15 104 6 0 0 0 0 5 2]
 [ 302 221 152 169 210 92 86 132 60 69 190 71 20 31
  56 74 0 93 124 1 8600 80 1 54 1 29 69 80]
 [ 45 13 3 9 18 12 5 3 25 4 10 2 1 5
  2 30 0 19 17 2 412 262 0 3 1 0 4 7]
 [ 30 3 0 1 4 1 0 0 0 4 2 0 0 0
  1 3 0 6 0 0 94 2 4 0 0 0 1 1]
```

```
[ 19 22 8 15 29 5 5 4 6 10 14 4 0 4
 7 7 0 4 11 0 692 7 0 58 0 4 10 27]
[ 18 2 1 1 2 8 1 2 0 1 2 0 0 0
 1 15 0 13 1 1 80 2 0 1 2 0 2 0]
[ 2 4 2 2 5 2 1 0 3 3 2 3 3 0
 0 11 0 0 0 1 71 1 0 1 0 136 18 1]
[ 9 11 11 8 8 7 1 3 7 31 9 7 2 0
 10 7 0 5 7 1 371 4 0 3 1 75 194 3]
[ 30 9 13 8 10 0 4 18 3 2 6 10 0 15
 5 3 0 3 2 0 317 3 0 7 0 0 2 221]]
```

Classsification Report:

View formatted classification report at:

[./precision/classification_reports/base_MLP_0.txt](#)

	precision	recall	f1-score	support
admiration	0.52	0.54	0.53	2134
amusement	0.53	0.59	0.56	1233
anger	0.38	0.29	0.33	1062
annoyance	0.23	0.09	0.13	1688
approval	0.33	0.12	0.17	2226
caring	0.27	0.12	0.17	669
confusion	0.37	0.13	0.19	965
curiosity	0.38	0.16	0.22	1143
desire	0.40	0.26	0.31	439
disappointment	0.28	0.09	0.13	970
disapproval	0.25	0.10	0.15	1537
disgust	0.39	0.28	0.33	585
embarrassment	0.40	0.16	0.22	303
excitement	0.34	0.11	0.17	597
fear	0.41	0.44	0.42	317
gratitude	0.76	0.78	0.77	1409
grief	0.00	0.00	0.00	58
joy	0.36	0.29	0.32	814
love	0.56	0.64	0.60	1004
nervousness	0.47	0.08	0.14	187
neutral	0.44	0.78	0.56	11067
optimism	0.49	0.29	0.36	914
pride	0.67	0.03	0.05	157
realization	0.29	0.06	0.10	972
relief	0.20	0.01	0.02	156
remorse	0.40	0.50	0.44	272
sadness	0.41	0.24	0.31	795
surprise	0.40	0.32	0.36	691
accuracy		0.44		34364
macro avg	0.39	0.27	0.29	34364
weighted avg	0.41	0.44	0.39	34364

Classifications: Emotions

Confusion Matrix:

View Visual matrix at:

[./precision/confusion_matrix_figures/base_MLP_sentiments_0.png](#)

```
[[ 924 634 1585 628]
 [ 236 4501 2127 910]
 [ 564 1982 6271 2250]
 [ 248 976 2424 8104]]
```

Classsification Report:

View formatted classification report at:

[./precision/classification_reports/base_MLP_1.txt](#)

	precision	recall	f1-score	support
ambiguous	0.47	0.25	0.32	3771
negative	0.56	0.58	0.57	7774
neutral	0.51	0.57	0.53	11067
positive	0.68	0.69	0.69	11752
accuracy		0.58		34364
macro avg	0.55	0.52	0.53	34364
weighted avg	0.57	0.58	0.57	34364