

Test size: 0.8
Model: top_MultinomialNB_2.5
HyperParams:
{
 "alpha": [
 0,
 0.5,
 1,
 10
]
}

Classifications: Emotions

Confusion Matrix:

View Visual matrix at:

[./precision/confusion_matrix_figures/top_MultinomialNB_2.5_emotions_0.png](#)

```
[[ 2946  45   9  38 217   7   9  33   1  12  33   2
    0  15   0 186   0  60 105   0 4624  37   0   4
    0   0   0  23]
 [ 154  957  10  48  69   3   8   9   3   3  22   1
    1   8   0  36   0  46  17   1 3503   4   0   9
    0   0   5  12]
 [ 60  13 295 239  66  11   9  14   2  16  72  19
    1   4   0  14   0  10   7   0 3329  10   0   6
    0   0   7   9]
 [ 89  39 117 342 173  11  26  31   2  33 150  27
    0   5   2  34   0  14  11   0 5465  14   0  25
    2   4  24  25]
 [ 348  60  11  96  669  20  28  23   7  23 128   9
    0   8   5  57   0  23  34   0 7364  39   0  37
    1   1  12  10]
 [ 45   4   4  25  57  76   5   9   1   3  15   0
    0   2   0  54   0   8   5   0 2433  61   0   6
    1   3   5   0]
 [ 41  12  10  62  75   0 144  84   2   8  49   3
    0   0   1  15   0   5   4   0 3397   8   0  11
    0   0   1   6]
 [ 61  14   9  56  81   3  54 289   4   2  37   1
    0   4   0  15   0   2  14   0 4023   6   0  11
    0   0   1  12]
 [ 32  16   0  19  35   2   5   6  31   2  10   2
    0   2   0  10   0   3  11   0 1516  40   0   5
    0   2   1   0]
 [ 53  14  19  76  84   2  16  12   1  84  56   8
    1   2   2  14   0  12   4   1 3220  15   0  17
    0   5  35   8]
 [ 67  29  31 128 177  10  19  20   0  34 329  13
    0   4   2  22   0  11   7   1 5172  10   0  20
    1   5  16  12]
 [ 32   7  50 111  57   1   8   6   1  12  65 117
    1   0   4   3   0   2   4   0 1813   8   0  11
    0   1   7   5]
 [ 21   5   6  29  39   2   6   2   0   7  21   1
```

```

7 0 2 5 0 5 2 0 974 6 0 7
0 3 5 5]
[ 214 18 11 15 52 2 7 25 0 3 15 3
0 55 4 22 0 114 16 0 1798 12 1 11
0 0 1 18]
[ 35 7 2 33 29 6 3 3 0 7 22 3
0 0 32 1 0 1 1 0 1199 2 0 9
0 0 6 5]
[ 259 9 3 12 36 14 2 2 1 3 12 0
0 5 0 3299 0 57 9 0 1878 32 0 4
0 6 7 1]
[ 2 0 0 7 3 1 1 0 0 1 3 1
0 0 1 9 0 2 0 0 240 3 0 4
0 1 7 0]
[ 222 132 6 11 97 8 3 8 4 5 17 4
1 14 0 96 0 303 67 0 2409 17 0 10
0 0 1 3]
[ 278 15 3 7 56 7 2 7 1 1 9 0
0 2 0 27 0 41 925 0 2604 10 0 4
0 1 1 1]
[ 5 2 5 14 13 6 3 2 0 1 11 0
1 0 1 2 0 1 0 0 557 3 1 0
0 0 5 1]
[ 1058 298 186 620 1309 99 186 283 26 160 668 72
6 73 27 293 0 170 164 4 37939 148 2 149
6 15 90 97]
[ 124 16 2 25 100 22 10 15 4 5 24 2
1 3 1 36 0 19 10 0 2922 286 0 6
1 0 3 1]
[ 74 1 2 5 25 2 0 4 0 3 3 0
0 2 0 9 0 4 0 0 425 4 0 2
0 0 2 0]
[ 74 24 9 45 132 2 20 18 0 17 60 1
2 5 2 15 0 7 7 0 3260 8 0 68
1 4 6 11]
[ 34 1 2 3 16 3 2 2 0 5 5 0
0 0 0 28 0 8 1 0 505 3 0 1
1 0 1 0]
[ 10 5 4 10 29 4 2 1 0 4 10 2
1 0 0 52 0 0 4 0 939 5 0 6
0 54 31 0]
[ 32 18 8 49 61 5 1 8 1 40 33 4
1 1 2 37 0 9 2 0 2595 9 0 13
0 25 138 4]
[ 133 15 14 34 37 3 19 25 1 15 20 6
0 18 1 13 0 15 6 0 2219 6 0 12
0 0 0 147]]

```

Classification Report:

View formatted classification report at:

[./precision/classification_reports/top_MultinomialNB_2.5_0.txt](#)

	precision	recall	f1-score	support
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admiration	0.45	0.35	0.40	8406
------------	------	------	------	------

amusement	0.54	0.19	0.29	4929
anger	0.36	0.07	0.12	4213
annoyance	0.16	0.05	0.08	6665
approval	0.18	0.07	0.10	9013
caring	0.23	0.03	0.05	2822
confusion	0.24	0.04	0.06	3938
curiosity	0.31	0.06	0.10	4699
desire	0.33	0.02	0.03	1750
disappointment	0.17	0.02	0.04	3761
disapproval	0.17	0.05	0.08	6140
disgust	0.39	0.05	0.09	2326
embarrassment	0.29	0.01	0.01	1160
excitement	0.24	0.02	0.04	2417
fear	0.36	0.02	0.04	1406
gratitude	0.75	0.58	0.66	5651
grief	0.00	0.00	0.00	286
joy	0.32	0.09	0.14	3438
love	0.64	0.23	0.34	4002
nervousness	0.00	0.00	0.00	634
neutral	0.35	0.86	0.50	44148
optimism	0.35	0.08	0.13	3638
pride	0.00	0.00	0.00	567
realization	0.15	0.02	0.03	3798
relief	0.07	0.00	0.00	621
remorse	0.42	0.05	0.08	1173
sadness	0.33	0.04	0.08	3096
surprise	0.35	0.05	0.09	2759
accuracy		0.36		137456
macro avg	0.29	0.11	0.13	137456
weighted avg	0.33	0.36	0.27	137456

Classifications: Emotions

Confusion Matrix:

View Visual matrix at:

[./precision/confusion_matrix_figures/top_MultinomialNB_2.5_sentiments_0.png](#)

```
[[ 1690  2224  6950  4330]
 [  530 13019 10741  6570]
 [ 1134  6913 22250 13851]
 [  523  3360 10209 33162]]
```

Classsification Report:

View formatted classification report at:

[./precision/classification_reports/top_MultinomialNB_2.5_1.txt](#)

	precision	recall	f1-score	support
ambiguous	0.44	0.11	0.18	15194
negative	0.51	0.42	0.46	30860
neutral	0.44	0.50	0.47	44148
positive	0.57	0.70	0.63	47254
accuracy			0.51	137456
macro avg	0.49	0.43	0.44	137456
weighted avg	0.50	0.51	0.49	137456