Model: base_MultinomialNB_2.5
HyperParams:

Classifications: Emotions
Confusion Matrix:
View Visual matrix at:
./precision/confusion_matrix_figures/base_MultinomialNB_2.5_emotions_1.png
[[1891   29   4   14   90   3   3   9   0   1   10   2
      0   4   0   93   0   25   65   0 2951   14   0   1
      0   0   0   12]
 [89 612   6   24   19   0   2   3   0   2   12   1
      0   2   0   17   0   22   13   0 2295   2   0   2
      0   0   2   5]
 [25   11 198 116   22   3   3   10   0   4   28   7
      1   1   0   9   0   5   3   0 2164   3   0   3
      0   1   3   5]
 [48   30   73 177   68   4   5   11   0   6   53   11
      0   1   0   15   0   6   8   0 3620   4   0   7
      0   2   11   9]
 [181   25   8   29 367   9   8   10   3   5   54   5
      0   1   1   24   0   9   20   0 4781   11   0   8
      0   0   2   1]
 [23   1   3   7   17   47   4   5   0   0   8   1
      0   0   0   25   0   7   5   0 1559   33   0   0
      0   2   1   0]
 [18   8   4   8   30   0   71   37   1   2   23   0
      0   0   0   14   0   3   4   0 2223   1   0   7
      0   0   0   2]
 [32   6   1   20   24   2   23 185   2   0   12   2
      0   1   0   5   0   0   6   0 2581   0   0   5
      0   0   0   3]
 [12   3   3   5   16   3   2   0   17   2   5   0
      0   0   0   6   0   3   8   0 975   19   0   0
      0   0   0   1]
 [33   9   4   29   34   1   4   0   1   49   19   7
      1   2   0   5   0   3   4   0 2209   5   0   6
      0   0   17   5]
 [40   18   14   53   79   2   13   4   0   11 164   5
      1   2   1   10   0   5   3   0 3430   5   0   12
      0   1   5   2]
 [19   4   40   62   23   1   2   2   0   8   22   71
      0   0   1   3   0   1   2   0 1167   4   0   1
      0   2   2   0]
 [7   2   5   25   15   0   2   3   0   3   10   1
      1   0   0   4   0   0   1   0 660   2   1   5
      0   0   1   1]
 [136   9   9   12   21   1   2   7   0   2   2   2
      0   28   1   19   0   87   10   0 1184   6   0   4
      0   0   1   10]
 [16   5   3   11   14   1   1   0   0   3   5   6
      0   1   13   0   0   0   0   0 796   2   0   4
      0   0   2   2]
 [168   11   0   5   9   7   0   3   0   0   5   0

```
    0    1    0 2110    0   34    5    0 1209   16    0    2
    0    3    1    0]
[   1    1    1    2    3    0    0    1    0    1    0    0
    0    0    1    4    0    0    0    0  149    0    0    0
    0    0   10    0]
[ 121   76    2    7   36    3    2    1    0    2    4    0
    0    2    0   54    0  182   49    0 1559    9    0    4
    0    0    0    1]
[ 166    7    2    0   28    2    0    3    0    0    2    0
    0    0    0    7    0   14  612    0 1690    1    0    0
    0    1    1    1]
[   5    2    2    5   11    2    1    4    0    2    4    0
    0    0    0    1    0    0    1    0  370    2    0    1
    0    0    3    2]
[ 549  159  133  245  477   39   74  142   17   72  249   31
    2   36   13  162    2  108   91    0 24635   67    2   61
    0    9   50   45]
[  72    4    1    9   38    6    5    1    6    1    6    0
    0    0    0   19    0   11    5    0 1868  185    0    0
    0    0    2    1]
[  39    1    0    2   10    0    1    1    0    1    2    0
    0    0    0    4    0    4    0    0  296    2    0    0
    0    0    1    0]
[  31    6    8   18   60    2    4    9    1    5   17    0
    1    2    1    6    0    4    5    0 2144    1    0   35
    0    0    1    3]
[  17    1    2    0   10    2    1    0    0    0    1    0
    0    0    0   16    0    4    0    0  346    0    0    0
    0    0    1    0]
[   2    3    3    3    8    3    0    2    0    4    3    1
    0    0    0   26    0    0    2    0  589    4    1    2
    0   20   25    0]
[  19    8    2   19   16    3    0    2    0   19   17    2
    0    0    0   11    0    4    0    0 1701    3    0    3
    0   17  101    0]
[  82   13   15   19    9    1    4   18    0    0    6    1
    0    6    1    3    0    7    4    0 1458    3    0    7
    0    0    2   80]]
```
Classsification Report:
View formatted classification report at:
./precision/classification_reports/base_MultinomialNB_2.5_2.txt

	precision	recall	f1-score	support
admiration	0.49	0.36	0.42	5221
amusement	0.58	0.20	0.29	3130
anger	0.36	0.08	0.12	2625
annoyance	0.19	0.04	0.07	4169
approval	0.24	0.07	0.10	5562
caring	0.32	0.03	0.05	1748
confusion	0.30	0.03	0.05	2456
curiosity	0.39	0.06	0.11	2910
desire	0.35	0.02	0.03	1080
disappointment	0.24	0.02	0.04	2447

	precision	recall	f1-score	support
disapproval	0.22	0.04	0.07	3880
disgust	0.46	0.05	0.09	1437
embarrassment	0.14	0.00	0.00	749
excitement	0.31	0.02	0.03	1553
fear	0.39	0.01	0.03	885
gratitude	0.79	0.59	0.67	3589
grief	0.00	0.00	0.00	174
joy	0.33	0.09	0.14	2114
love	0.66	0.24	0.35	2537
nervousness	0.00	0.00	0.00	418
neutral	0.35	0.90	0.50	27470
optimism	0.46	0.08	0.14	2240
pride	0.00	0.00	0.00	364
realization	0.19	0.01	0.03	2364
relief	0.00	0.00	0.00	401
remorse	0.34	0.03	0.05	701
sadness	0.41	0.05	0.09	1947
surprise	0.42	0.05	0.08	1739
accuracy			0.37	85910
macro avg	0.32	0.11	0.13	85910
weighted avg	0.36	0.37	0.27	85910

Classifications: Emotions
Confusion Matrix:
View Visual matrix at:
./precision/confusion_matrix_figures/base_MultinomialNB_2.5_sentiments_1.png
[[1812 1435 3855 2367]
 [571 9531 5894 3436]
 [1273 4670 13725 7802]
 [595 2203 5888 20853]]
Classsification Report:
View formatted classification report at:
./precision/classification_reports/base_MultinomialNB_2.5_3.txt

	precision	recall	f1-score	support
ambiguous	0.43	0.19	0.26	9469
negative	0.53	0.49	0.51	19432
neutral	0.47	0.50	0.48	27470
positive	0.61	0.71	0.65	29539
accuracy			0.53	85910
macro avg	0.51	0.47	0.48	85910
weighted avg	0.53	0.53	0.52	85910