Model: base_MultinomialNB
HyperParams:

Classifications: Emotions
Confusion Matrix:
View Visual matrix at:
./precision/confusion_matrix_figures/base_MultinomialNB_emotions_1.png
[[960   16   4   8   38   5   1   9   0   2   3   0   1   3
     0   53   0   18   39   0 950   11   0   3   0   0   0   10]
 [34 327   6   11   9   0   2   5   1   1   7   0   0   2
     0   9   0   10   10   0 786   3   0   0   0   0   2   8]
 [6   10 126   64   14   1   1   5   0   4   12   7   0   1
     0   5   0   2   0   0 796   2   0   0   0   1   1   4]
 [28   19   51   95   42   3   4   8   0   5   31   11   0   2
     0   8   0   1   3   0 1351   4   0   5   0   0   8   9]
 [104   16   6   27 224   11   7   6   2   3   27   3   0   3
     1   18   0   6   12   0 1729   11   0   6   0   0   3   1]
 [15   1   1   5   11   36   2   6   0   1   5   1   0   0
     0   20   0   4   4   0 540   15   0   0   0   1   1   0]
 [10   8   4   7   13   0   57   28   0   1   13   1   0   0
     1   8   0   2   3   0 800   0   0   7   0   0   0   2]
 [12   6   1   8   16   2   17 123   1   2   11   0   0   0
     0   5   0   1   2   0 921   2   0   10   0   0   0   3]
 [14   4   1   5   8   1   2   1   7   0   1   1   0   2
     0   2   0   0   6   0 369   13   0   0   0   0   0   2]
 [15   8   6   18   23   1   2   0   0   38   10   5   0   0
     0   3   0   1   6   0 812   4   0   2   0   1   11   4]
 [13   13   11   39   42   3   8   2   0   4 116   5   1   0
     1   9   0   4   1   0 1251   2   0   6   0   0   3   3]
 [12   5   22   30   8   0   2   0   0   4   17   52   0   0
     1   3   0   1   1   0 417   3   0   4   0   0   2   1]
 [3   2   2   12   7   1   3   2   0   0   6   3   2   1
     0   3   0   0   1   0 251   2   0   1   0   0   0   1]
 [55   6   6   0   12   0   1   13   0   0   3   0   0   18
     0   15   0   33   3   0 416   4   0   2   0   0   3   7]
 [8   3   0   2   13   2   0   1   0   2   1   0   0   0
     5   0   0   0   0   0 276   2   0   2   0   0   0   0]
 [75   5   0   2   7   8   0   2   0   2   3   0   0   1
     0 956   0   16   4   0 315   7   0   2   0   2   2   0]
 [1   0   1   0   3   0   0   1   0   0   1   0   0   0
     1   2   0   0   0   0   44   0   0   0   0   0   4   0]
 [69   54   2   5   16   5   0   1   0   1   2   0   0   6
     0   26   0   92   28   0 497   5   0   2   0   0   2   1]
 [56   10   0   2   4   1   0   1   0   0   2   0   0   1
     0   3   0   8 356   0 550   6   0   2   0   1   0   1]
 [3   0   2   5   8   3   1   2   0   2   3   0   0   0
     2   1   0   0   0   0 151   1   0   0   0   0   2   1]
 [294 104   84 152 248   48   50   90   9   53 166   25   3   17
    12   86   2   51   56   0 9365   41   0   40   0   2   35   34]
 [43   4   0   2   14   8   2   3   3   0   6   1   0   0
     1   16   0   9   5   0 669 127   0   0   0   0   1   0]
 [23   2   0   2   5   1   0   0   0   2   4   0   0   0
     0   5   0   4   0   0 105   3   0   1   0   0   0   0]]

```
[ 19  10   3  10  34   0   3   1   0   2  10   0   0   2
   0   5   0   5   4   0 829   2   0  27   0   0   1   5]
[ 17   1   0   1   3   2   2   0   0   0   1   0   0   0
   0   8   0   4   2   0 113   0   0   2   0   0   0   0]
[  2   3   3   3   5   3   0   0   0   5   1   1   1   0
   0  17   0   0   1   0 191   1   0   2   0  19  14   0]
[ 14   4   3  11  10   3   1   1   1  20   8   2   0   0
   0   8   0   4   1   0 619   3   0   2   0   9  71   0]
[ 40   7   9   5  11   0   4  19   0   3   8   1   0   3
   1   2   0   3   1   0 521   0   0   3   0   0   2  48]]
```

Classsification Report:
View formatted classification report at:
./precision/classification_reports/base_MultinomialNB_3.txt

	precision	recall	f1-score	support
admiration	0.49	0.45	0.47	2134
amusement	0.50	0.27	0.35	1233
anger	0.36	0.12	0.18	1062
annoyance	0.18	0.06	0.09	1688
approval	0.26	0.10	0.15	2226
caring	0.24	0.05	0.09	669
confusion	0.33	0.06	0.10	965
curiosity	0.37	0.11	0.17	1143
desire	0.29	0.02	0.03	439
disappointment	0.24	0.04	0.07	970
disapproval	0.24	0.08	0.12	1537
disgust	0.44	0.09	0.15	585
embarrassment	0.25	0.01	0.01	303
excitement	0.29	0.03	0.05	597
fear	0.19	0.02	0.03	317
gratitude	0.74	0.68	0.71	1409
grief	0.00	0.00	0.00	58
joy	0.33	0.11	0.17	814
love	0.65	0.35	0.46	1004
nervousness	0.00	0.00	0.00	187
neutral	0.37	0.85	0.51	11067
optimism	0.46	0.14	0.21	914
pride	0.00	0.00	0.00	157
realization	0.21	0.03	0.05	972
relief	0.00	0.00	0.00	156
remorse	0.53	0.07	0.12	272
sadness	0.42	0.09	0.15	795
surprise	0.33	0.07	0.11	691
accuracy			0.39	34364
macro avg	0.31	0.14	0.16	34364
weighted avg	0.36	0.39	0.31	34364

Classifications: Emotions
Confusion Matrix:
View Visual matrix at:
./precision/confusion_matrix_figures/base_MultinomialNB_sentiments_1.png
[[878 588 1419 886]
 [300 4175 2063 1236]
 [680 1916 5410 3061]
 [293 958 2210 8291]]
Classsification Report:
View formatted classification report at:
./precision/classification_reports/base_MultinomialNB_4.txt

	precision	recall	f1-score	support
ambiguous	0.41	0.23	0.30	3771
negative	0.55	0.54	0.54	7774
neutral	0.49	0.49	0.49	11067
positive	0.62	0.71	0.66	11752
accuracy			0.55	34364
macro avg	0.51	0.49	0.50	34364
weighted avg	0.54	0.55	0.54	34364