```
Model: top_MultinomialNB
HyperParams:
  "alpha": [
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    0.5.
    1,
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Classifications: Emotions
Confusion Matrix:
View Visual matrix at:
./precision/confusion_matrix_figures/top_MultinomialNB_emotions_2.png
[[1083 21
           8 15 51
                    11
                        3 17
                                3
                                  7
                                      8
                                          2
                                             1 14
    73
         0 40 69
                                  7
                                            2
                    0 657
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                                         1
[ 43 505
          8 20
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         0 25
                    0 532
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                                           3 10]
     14 208 89 20
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                                     28
                                        15
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               3 0 608 5 0
                               4 0 1
                                          8
     35
        98 161 57 12 23 18
                                 5 20 55 21
            3 10
                              0 16 0
                                                171
     11
                  0 1054 12
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                                            21
     24
          17 47 300 33 17 15
                                    14 54
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                                        0 21 138
                 3 0 459
                              6
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              6
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[ 44
      11
          16 8 16
                       3 7
                             26 0
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                 2
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                    0 397
                                    8
                                               3 106]]
   4
          0
                             4
                                0
                                       0
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Classification Report:
View formatted classification report at:
./precision/classification_reports/top_MultinomialNB_4.txt
         precision
                   recall f1-score support
                0.48
                        0.51
                                0.49
                                        2134
  admiration
                  0.49
                          0.41
                                  0.45
                                          1233
   amusement
                      0.20
                              0.25
                                      1062
               0.33
     anger
                                 0.12
                 0.18
                         0.10
                                         1688
   annovance
                0.25
                       0.13
                               0.17
                                       2226
   approval
              0.20
                      0.13
                              0.16
                                      669
    caring
                        0.13
   confusion
                0.28
                                0.18
                                        965
               0.33
                      0.18
                              0.23
                                      1143
   curiosity
    desire
              0.34
                      0.10
                              0.15
                                      439
disappointment
                  0.23
                          0.09
                                  0.12
                                           970
                0.23
                        0.14
                                0.17
                                        1537
 disapproval
                      0.16
                              0.23
    disgust
               0.38
                                       585
                   0.31
                           0.03
                                   0.06
                                           303
embarrassment
                                0.11
                0.26
                        0.07
                                         597
  excitement
             0.40
                     0.15
                             0.22
                                      317
     fear
   gratitude
               0.69
                       0.75
                               0.72
                                       1409
             0.00
                     0.00
                             0.00
                                      58
     grief
      joy
             0.33
                     0.21
                             0.26
                                     814
              0.57
                             0.53
                                     1004
      love
                     0.49
                  0.17
                          0.01
                                 0.01
                                          187
 nervousness
              0.40
                      0.72
                              0.51
    neutral
                                      11067
                        0.22
                                0.28
                0.37
                                        914
   optimism
              0.38
                      0.02
                             0.04
                                      157
     pride
                                        972
 realization
               0.18
                       0.06
                               0.09
    relief
             0.20
                     0.01
                             0.01
                                     156
                0.44
                        0.17
                               0.24
                                        272
    remorse
                                0.23
                0.36
                                        795
                        0.17
    sadness
               0.32
                       0.15
                               0.21
                                       691
   surprise
```

accuracy

0.39 34364

macro avg 0.33 0.20 0.22 34364 weighted avg 0.36 0.39 0.35 34364

3771 ambiguous 0.41 0.23 0.30 negative 0.55 0.54 0.54 7774 11067 neutral 0.49 0.49 0.49 positive 0.66 0.62 0.71 11752

accuracy 0.55 34364 macro avg 0.51 0.49 0.50 34364 weighted avg 0.54 0.55 0.54 34364