Test size: 0.2
Model: top_MLP
HyperParams:
{
    "activation": [
        "logistic",
        "tanh",
        "relu",
        "identity"
    ],
    "hidden_layer_sizes": [
        [
            10,
            30
        ],
        [
            10,
            10,
            10
        ]
    ],
    "solver": [
        "adam",
        "sgd"
    ],
    "max_iter": [
        2
    ]
}

Classifications: Emotions
Confusion Matrix:
View Visual matrix at: ./precision/confusion_matrix_figures/top_MLP_emotions_0.png
[[1130   24   8   3   26   8   0   4   3   0   4   2   1   1
     0   35   0   44   91   0 700   24   0   0   0   0   2   24]
 [32 686   4   6   2   1   0   3   1   0   1   3   1   1
     2   15   0   29   13   0 417   2   0   0   0   1   1   12]
 [5   18 252   54   1   2   0   3   1   4   10   14   0   0
     4   4   0   5   3   0 661   5   0   0   0   3   8   5]
 [19   51 107   74   9   5   4   14   5   9   31   17   0   0
     1   7   0   8   14   0 1265   13   0   0   0   5   15   15]
 [120   26   6   13 111   14   8   5   8   7   19   4   0   1
     3   17   0   23   38   0 1746   30   0   1   0   5   16   5]
 [28   7   3   2   1   33   2   6   3   0   5   2   0   0
     1   9   0   9   8   0 490   37   0   0   0   14   7   2]
 [13   14   11   8   7   0   63   22   0   0   23   1   0   0
     4   9   0   2   15   0 750   4   0   8   0   1   3   7]
 [19   12   13   2   0   1   11 122   1   4   8   2   2   0
     2   7   0   5   16   0 889   6   0   0   0   3   2   16]
 [16   9   1   4   2   10   1   3   66   0   3   1   0   0
     1   1   0   4   21   0 251   39   0   0   0   1   2   3]
 [6   20   21   12   12   3   3   2   3   35   11   10   0   0
     2   7   0   1   8   0 732   10   0   1   0   9   55   7]

```
[  16   28   25   28   15    5   16    1    1    3   65   10    2    0
    6   12    0    5    7    0 1237   15    0    1    0   14   17    8]
[   5   13   55   24    1    0    0    1    1   11   19   97    1    0
    6    2    0    1    1    0  328    3    0    0    0    2    8    6]
[   2    6    8   11    0    1    3    2    2    1    9   11    8    0
    1    2    0    2    5    0  206    2    0    1    0    7    4    9]
[  84   13   15    1    4    0    2   11    0    1    0    1    0   23
    1    7    0   45   17    0  338    8    0    0    0    1    6   19]
[   1   10    5    5    1    1    0    1    0    4    8    1    0    1
   75    0    0    2    2    0  194    3    0    0    0    0    2    1]
[  96    8    1    0    2    6    0    1    1    0    0    0    0    0
    0 1088    0   38    9    0  124   14    0    0    0   17    4    0]
[   1    0    1    0    0    0    0    0    0    0    0    0    0    0
    2    2    0    0    0    0   43    1    0    0    0    4    4    0]
[  85  105    3    2    3    1    0    2    0    1    1    0    0    1
    2   21    0  204   62    0  306    8    0    0    0    1    4    2]
[  61   14    2    1    2    0    0    4    0    0    3    0    0    0
    1   14    0   14  664    0  214    5    0    0    0    2    1    2]
[   3    2    3    2    4    1    0    0    1   10    6    1    0    0
    7    1    0    0    0    0  136    3    0    0    0    0    6    1]
[ 277  195  120   81   51   32   44   70   22   20  139   27    2    8
   23   70    0   81  122    0 9424   95    0    6    0   32   72   54]
[  54    9    4    3   10   13    3    2   16    3   10    0    0    0
    0   11    0   12   15    0  444  296    0    0    0    0    6    3]
[  30    1    0    1    3    0    0    0    0    2    0    1    0    0
    0    3    0    9    1    0  101    2    0    0    0    0    2    1]
[  24   18    9    6   14    1    6    1    2    6    8    3    0    0
    6    8    0    3    8    0  797    9    0    8    0    3   10   22]
[  14    3    0    0    2    0    1    0    0    0    0    0    0    0
    1   11    0   15    5    0   97    3    0    0    0    0    4    0]
[   1    9    5    0    2    4    2    0    3    3    3    3    0    0
    0    5    0    0    0    0   74    2    0    0    0  128   28    0]
[   8   11    9    5    9    4    0    0    4    8    4    7    0    0
    6    5    0    4    4    0  444    9    0    1    0   78  173    2]
[  56    8   11    2    8    0    1   21    2    2    1    5    1    1
    1    2    0    6    4    0  405    5    0    0    0    1    3  145]]
```

Classsification Report:
View formatted classification report at:
./precision/classification_reports/top_MLP_0.txt

	precision	recall	f1-score	support
admiration	0.51	0.53	0.52	2134
amusement	0.52	0.56	0.54	1233
anger	0.36	0.24	0.29	1062
annoyance	0.21	0.04	0.07	1688
approval	0.37	0.05	0.09	2226
caring	0.23	0.05	0.08	669
confusion	0.37	0.07	0.11	965
curiosity	0.41	0.11	0.17	1143
desire	0.45	0.15	0.23	439
disappointment	0.26	0.04	0.06	970
disapproval	0.17	0.04	0.07	1537
disgust	0.43	0.17	0.24	585

	precision	recall	f1-score	support
embarrassment	0.44	0.03	0.05	303
excitement	0.62	0.04	0.07	597
fear	0.47	0.24	0.32	317
gratitude	0.79	0.77	0.78	1409
grief	0.00	0.00	0.00	58
joy	0.36	0.25	0.29	814
love	0.58	0.66	0.62	1004
nervousness	0.00	0.00	0.00	187
neutral	0.41	0.85	0.56	11067
optimism	0.45	0.32	0.38	914
pride	0.00	0.00	0.00	157
realization	0.30	0.01	0.02	972
relief	0.00	0.00	0.00	156
remorse	0.39	0.47	0.42	272
sadness	0.37	0.22	0.27	795
surprise	0.39	0.21	0.27	691
accuracy			0.44	34364
macro avg	0.35	0.22	0.23	34364
weighted avg	0.40	0.44	0.36	34364

Classifications: Emotions
Confusion Matrix:
View Visual matrix at:
./precision/confusion_matrix_figures/top_MLP_sentiments_0.png
[[999 610 1563 599]
 [297 4425 2165 887]
 [725 2048 6156 2138]
 [320 964 2516 7952]]
Classsification Report:
View formatted classification report at:
./precision/classification_reports/top_MLP_1.txt

	precision	recall	f1-score	support
ambiguous	0.43	0.26	0.33	3771
negative	0.55	0.57	0.56	7774
neutral	0.50	0.56	0.52	11067
positive	0.69	0.68	0.68	11752
accuracy			0.57	34364
macro avg	0.54	0.52	0.52	34364
weighted avg	0.57	0.57	0.56	34364