#####

```
#####
Best estimater data...
MLPClassifier(activation='relu', alpha=0.001, batch size='auto', b
eta_1=0.9,
          beta 2=0.999, early stopping=False, epsilon=1e-08,
          hidden_layer_sizes=(300, 200, 100, 50, 10),
          learning rate='constant', learning rate init=0.001,
max fun=15000,
          max_iter=10000, momentum=0.9, n iter no change=10,
          nesterovs momentum=True, power t=0.5, random state=N
one,
          shuffle=True, solver='adam', tol=0.0001, validation
fraction=0.1,
          verbose=False, warm start=False)
############ Neural Net Results on the test set:
          precision
                  recall f1-score
                                 support
                     0.38
              0.57
                            0.45
                                     56
        Α
                     0.63
        В
              0.55
                            0.59
                                     125
        С
              0.50
                     0.51
                            0.50
                                     65
                            0.54
                                     246
  accuracy
                            0.51
  macro avg
              0.54
                     0.50
                                     246
weighted avg
              0.54
                     0.54
                            0.54
                                     246
############ Probabbility of guessing test label by chance:
Test label Counts:
Counter({'B': 125, 'C': 65, 'A': 56})
Probabilities of gussing by chance:
C: 0.26
A: 0.23
B: 0.51
#####
```

about:srcdoc Page 9 of 10

Ted_script 5/4/20, 2:25 PM

Best estimater data...

	precision	recall	f1-score	support
A	0.50	0.27	0.35	56
В	0.55	0.84	0.67	125
С	0.65	0.26	0.37	65
accuracy			0.56	246
macro avg	0.57	0.46	0.46	246
weighted avg	0.57	0.56	0.52	246

############ Probabbility of guessing test label by chance:
Test label Counts:

Counter({'B': 125, 'C': 65, 'A': 56})

Probabilities of gussing by chance:

C: 0.26
A: 0.23
B: 0.51

about:srcdoc Page 10 of 10