```
1 /usr/local/bin/python3.12 /Users/robli/Documents/
   Undergraduate/Semester 5/MachineLearning/
   Assignment4/PretrainedEmbedding/
   PretrainedEmbeddings.py
2 Filtered Training Data Shape: (36308, 3)
 3
 4 Filtered Validation Data Shape: (4548, 3)
 6 Filtered Testing Data Shape: (4590, 3)
 8 Sample from Training Data:
   text
         labels
                      id
10 0 My favourite food is anything I didn't have to
            27
                eebbgej
11 1 Now if he does off himself, everyone will thin
            27
                ed00q6i
12 2
                         WHY THE FUCK IS BAYLESS
   ISOING
                2
                   eezlygj
13 3
                            To make her feel
   threatened
                   14
                       ed7ypvh
14 4
                                 Dirty Southern
  Wankers
                    ed0bdzj
                 3
15
16 Sample from Validation Data:
17
   text labels
                      id
      Is this in New Orleans?? I really feel like th
            27 edgurhb
19 2
                   I've never been this sad in my life
          25
              edcu99z
20 4 He could have easily taken a real camera from
             20
                eepig6r
21 5 Thank you for your vote of confidence, but we
             15
                 eczm50f
22 6 Wah Mum other people call me on my bullshit an
             2
                ed4vr9r
23
24 Sample from Test Data:
25
                      id
   text
         labels
```

```
I'm really sorry about your situation :( Altho
            25
                eecwatt
        It's wonderful because it's awful. At not with
27 1
              ed5f85d
28 2
     Kings fan here, good luck to you guys! Will be
            13
                een27c3
     I didn't know that, thank you for teaching me
             15
                 eelgwd1
30 4 They got bored from haunting earth for thousan
                eem5uti
            27
31 Loading pretrained embeddings...
32 Embeddings loaded successfully!
33 Creating document embeddings...
34 Document embeddings created successfully!
35 Train Embeddings Shape: (36308, 100)
36 Validation Embeddings Shape: (4548, 100)
37 Test Embeddings Shape: (4590, 100)
38
39 Training Simple Regression (Logistic Regression)
   with class weights...
40 Simple Regression (Logistic Regression) with class
   weights Validation Accuracy: 0.1613896218117854
41 Simple Regression (Logistic Regression) with class
   weights Test Accuracy: 0.15773420479302833
42
43 Training Simple Regression (Logistic Regression)
   without class weights...
44 Simple Regression (Logistic Regression) without
   class weights Validation Accuracy: 0.
   39335971855760776
45 Simple Regression (Logistic Regression) without
   class weights Test Accuracy: 0.38758169934640524
46
47 Training Random Forest without class weights...
48 Random Forest without class weights Validation
   Accuracy: 0.3496042216358839
49 Random Forest without class weights Test Accuracy:
   0.34727668845315907
50
51 Training Random Forest with class weights...
52 Random Forest with class weights Validation
```

	retrainedEmbeddings
	Accuracy: 0.3762093227792436
53	Random Forest with class weights Test Accuracy: 0.
	3836601307189543
54	
	Process finished with exit code 0
56	