```
 1 /Users/pavankumar/Desktop/pythonProject1/.venv/bin/
   python /Users/pavankumar/Desktop/pythonProject1/
   scripts/train_model.py
 2    gc_content  kmer_0  kmer_1  kmer_2  ...  kmer_62
   kmer_63  sequence_length  label
 3 0    0.288908   24401    9038    8085  ...    11154
   27664           498903     0
 4 1    0.284443   22547    5823    9586  ...     9070
   18692           383504     0
 5 2    0.286269   22244    5831    9417  ...     8991
   18323           380632     0
 6 3    0.283988   16191    6750    4319  ...     6984
   20190           328859     0
 7 4    0.281325   13170    3103    5583  ...     5464
   11395           222348     0
 8
 9 [5 rows x 67 columns]
10 Class distribution after oversampling: Counter({0:
   12, 1: 12})
11 Accuracy: 1.0
12 Classification Report:
13              precision    recall  f1-score
   support
14
15          0       1.00      1.00      1.00
           3
16          1       1.00      1.00      1.00
           2
17
18   accuracy                            1.00
           5
19  macro avg       1.00      1.00      1.00
           5
20 weighted avg     1.00      1.00      1.00
           5
21
22 Model saved to /Users/pavankumar/Desktop/
   pythonProject1/sequence_ml_project/models/
   random_forest_model.pkl
23
24 Process finished with exit code 0
```