```python
In [1]: !pip install nltk
        import nltk
        nltk.download('movie_reviews')
        from nltk.corpus import movie_reviews
        import random
        import nltk
        from sklearn.feature_extraction.text import CountVectorizer
        from sklearn.naive_bayes import MultinomialNB
        from sklearn.pipeline import make_pipeline

        docs = [(movie_reviews.raw(fileid), category)
                for category in movie_reviews.categories()
                for fileid in movie_reviews.fileids(category)]

        random.shuffle(docs)
        texts, labels = zip(*docs)

        # Split
        train_texts = texts[:1500]
        train_labels = labels[:1500]
        test_texts = texts[1500:]
        test_labels = labels[1500:]

        # Vectorize and train
        model = make_pipeline(CountVectorizer(), MultinomialNB())
        model.fit(train_texts, train_labels)

        print("Test Accuracy:", model.score(test_texts, test_labels))
```

```
Requirement already satisfied: nltk in c:\users\91800\anaconda3\lib\site-packages (3.8.1)
Requirement already satisfied: click in c:\users\91800\anaconda3\lib\site-packages (from nltk) (8.0.4)
Requirement already satisfied: joblib in c:\users\91800\anaconda3\lib\site-packages (from nltk) (1.2.0)
Requirement already satisfied: regex>=2021.8.3 in c:\users\91800\anaconda3\lib\site-packages (from nltk) (202
2.7.9)
Requirement already satisfied: tqdm in c:\users\91800\anaconda3\lib\site-packages (from nltk) (4.65.0)
Requirement already satisfied: colorama in c:\users\91800\anaconda3\lib\site-packages (from click->nltk) (0.4.
6)

[nltk_data] Downloading package movie_reviews to
[nltk_data]     C:\Users\91800\AppData\Roaming\nltk_data...
[nltk_data]   Unzipping corpora\movie_reviews.zip.
```

```
Test Accuracy: 0.806
```

In [2]: `model.predict(["This movie was fantastic! The acting was brilliant."])`

Out[2]: `array(['pos'], dtype='<U3')`

In [3]: `model.predict(["I hated the film. It was boring and too long."])`

Out[3]: `array(['neg'], dtype='<U3')`