

sentiment-analyze

July 15, 2025

```
[1]: from transformers import AutoTokenizer, AutoModelForSequenceClassification, \
      ↪ pipeline
      import torch
```

```
[2]: model_name = "cardiffnlp/twitter-roberta-base-sentiment"
      tokenizer = AutoTokenizer.from_pretrained(model_name)
      model = AutoModelForSequenceClassification.from_pretrained(model_name)
```

```
/usr/local/lib/python3.11/dist-packages/huggingface_hub/utils/_auth.py:94:
UserWarning:
The secret `HF_TOKEN` does not exist in your Colab secrets.
To authenticate with the Hugging Face Hub, create a token in your settings tab
(https://huggingface.co/settings/tokens), set it as secret in your Google Colab
and restart your session.
You will be able to reuse this secret in all of your notebooks.
Please note that authentication is recommended but still optional to access
public models or datasets.
```

```
warnings.warn(

config.json: 0%|          | 0.00/747 [00:00<?, ?B/s]
vocab.json: 0.00B [00:00, ?B/s]
merges.txt: 0.00B [00:00, ?B/s]
special_tokens_map.json: 0%|          | 0.00/150 [00:00<?, ?B/s]
pytorch_model.bin: 0%|          | 0.00/499M [00:00<?, ?B/s]
```

```
[3]: labels = ['Negative', 'Neutral', 'Positive']

      sentiment_pipeline = pipeline("sentiment-analysis", model=model, \
      ↪ tokenizer=tokenizer)
```

Device set to use cpu

```
[10]: user_input = input("Enter a social media post to analyze sentiment: ")

      result = sentiment_pipeline(user_input)[0]
```

Enter a social media post to analyze sentiment: i feel bad and good

```
[11]: label_index = int(result['label'].split('_')[-1])  
      sentiment = labels[label_index]
```

```
[13]: print(f"\n Input: {user_input}")  
      print(f" Sentiment: {sentiment}")  
      print(f" Confidence Score: {result['score']:.2f}")
```

```
Input: i feel bad and good  
Sentiment: Neutral  
Confidence Score: 0.41
```