

```
!pip install transformers torch
```

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```

```
from transformers import AutoTokenizer, AutoModelForSequenceClassification
import torch
```

```
# Load tokenizer and model (already fine-tuned for emotions)
model_name = "nateraw/bert-base-uncased-emotion"
tokenizer = AutoTokenizer.from_pretrained(model_name)
model = AutoModelForSequenceClassification.from_pretrained(model_name)
```

```
# Labels of emotions
labels = ['sadness', 'joy', 'love', 'anger', 'fear', 'surprise']
```

```

/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
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(

tokenizer_config.json: 100% 252/252 [00:00<00:00, 22.2kB/s]

config.json: 100% 768/768 [00:00<00:00, 55.1kB/s]

vocab.txt: 100% 232k/232k [00:00<00:00, 7.11MB/s]

special_tokens_map.json: 100% 112/112 [00:00<00:00, 10.8kB/s]

pytorch_model.bin: 100% 438M/438M [00:02<00:00, 240MB/s]

```

```

def predict_emotion(text):
    # Tokenize input
    inputs = tokenizer(text, return_tensors="pt", truncation=True, padding=True)

    # Model prediction
    with torch.no_grad():
        logits = model(**inputs).logits

    # Convert logits to probabilities
    probs = torch.softmax(logits, dim=1).squeeze()

    # Get top 2 emotions
    top_probs, top_labels_idx = torch.topk(probs, 2)
    top_emotion = labels[top_labels_idx[0]]

    # Smart love adjustment
    if labels[top_labels_idx[1]] == "love" and (top_probs[0] - top_probs[1]) < 0.2:
        return "love"
    else:
        return top_emotion

# Sample texts
texts = [
    "I love U",
    "I am scared about tomorrow's presentation.",
    "I feel extremely happy today!",
    "I am broken and sad.",
    "I feel so loved and affectionate.",
    "Life feels surprising sometimes.",
    "I'm happy"
]

# Run prediction
for text in texts:
    emotion = predict_emotion(text)
    print(f"Text: {text}\nPredicted Emotion: {emotion}\n")

```

```

Text: I love U
Predicted Emotion: love

Text: I am scared about tomorrow's presentation.
Predicted Emotion: fear

Text: I feel extremely happy today!
Predicted Emotion: joy

Text: I am broken and sad.
Predicted Emotion: sadness

Text: I feel so loved and affectionate.
Predicted Emotion: love

Text: Life feels surprising sometimes.
Predicted Emotion: surprise

Text: I'm happy
Predicted Emotion: joy

```