

```
from google.colab import files
```

```
uploaded = files.upload()
```



Choose Files updated\_da...bels (1).csv

- **updated\_dataset\_with\_dialect\_labels (1).csv**(text/csv) - 761664 bytes, last modified: 12/9/2024 - 100% done
- Saving updated\_dataset\_with\_dialect\_labels (1).csv to updated\_dataset\_with\_dialect\_labels (1).csv

```
print(uploaded.keys())
```



dict\_keys(['updated\_dataset\_with\_dialect\_labels (1).csv'])

```
import pandas as pd
from transformers import AutoTokenizer
import torch
from collections import Counter
import re
```

```
dataset = pd.read_csv("updated_dataset_with_dialect_labels (1).csv")
```

```
label_map = {"india": 0, "usa": 1, "united kingdom": 2}
```

```
def clean_label(label):
    label = label.lower()
    label = re.sub(r"^[^a-zA-Z\s]", "", label)
    label = label.strip()
    return label
```

```
original_labels = dataset["Region"].tolist()
cleaned_labels = [clean_label(label) for label in original_labels]
```

```
labels = [label_map.get(label, -1) for label in cleaned_labels]
```

```
print("Label counts before mapping:", Counter(original_labels))
print("Label counts after cleaning:", Counter(cleaned_labels))
print("Label counts after mapping:", Counter(labels))
```

```
texts = dataset["Post_and_Comments"].tolist()
```

```
tokenizer = AutoTokenizer.from_pretrained("bert-base-uncased")
```

```
encoded_data = tokenizer(texts, padding=True, truncation=True, return_tensors="pt")
```

```
torch.save(encoded_data, 'tokenized_output.pt')
```

```
print("Sample tokenized input IDs:", encoded_data['input_ids'][:3])
print("Sample attention masks:", encoded_data['attention_mask'][:3])
```

```
print("Tokenization complete. Tokenized data saved to 'tokenized_output.pt'.")
```

[https://colab.research.google.com/drive/1HPqQpYiF51L2Ud65LaL\\_UNiG48cqMYU1#scrollTo=1RAWfk0WD8to&printMode=true](https://colab.research.google.com/drive/1HPqQpYiF51L2Ud65LaL_UNiG48cqMYU1#scrollTo=1RAWfk0WD8to&printMode=true)