

```
import pandas as pd
```

```
df = pd.read_csv("/content/news_senti_data.csv",encoding='latin1')
```

```
# Preview data
df.head()
```

	Sentiment	News_statement
0	neutral	According to Gran , the company has no plans t...
1	neutral	Technopolis plans to develop in stages an area...
2	negative	The international electronic industry company ...
3	positive	With the new production plant the company woul...
4	positive	According to the company 's updated strategy f...

```
!pip install --upgrade torch torchvision torchaudio --index-url https://download.pytorch.org/whl/cpu
```

Show hidden output

```
import torch
print(torch.__version__) # should be >= 1.10.0
```

2.8.0+cpu

```
from transformers import AutoTokenizer, AutoModelForSequenceClassification, pipeline
import pandas as pd
from tqdm import tqdm
```

```
model_name = "ProsusAI/finbert"
tokenizer = AutoTokenizer.from_pretrained(model_name)
model = AutoModelForSequenceClassification.from_pretrained(model_name)
```

```
classifier = pipeline("sentiment-analysis", model=model, tokenizer=tokenizer)
```

```
# Apply to dataset
tqdm.pandas()
df["Predicted_Sentiment"] = df["News_statement"].progress_apply(
    lambda x: classifier(str(x), truncation=True)[0]['label'].lower()
)
```

```
print(df.head())
```

/usr/local/lib/python3.11/dist-packages/huggingface_hub/file_download.py:945: FutureWarning: `resume_download` is deprecated and will be removed in version 0.20.0. The old behavior is equivalent to `resume_download=False`.

```
tokenizer_config.json: 100% 252/252 [00:00<00:00, 6.43kB/s]
```

```
config.json: 100% 758/758 [00:00<00:00, 23.9kB/s]
```

```
vocab.txt: 232k/? [00:00<00:00, 5.74MB/s]
```

```
special_tokens_map.json: 100% 112/112 [00:00<00:00, 3.48kB/s]
```

```
pytorch_model.bin: 100% 438M/438M [00:23<00:00, 23.8MB/s]
```

```
100%|██████████| 4846/4846 [10:41<00:00, 7.55it/s] Sentiment
0 neutral According to Gran , the company has no plans t...
1 neutral Technopolis plans to develop in stages an area...
2 negative The international electronic industry company ...
3 positive With the new production plant the company woul...
4 positive According to the company 's updated strategy f...
```

```
News_statement \
```

```
Predicted_Sentiment
0 neutral
1 neutral
2 negative
3 positive
4 positive
```

```
df.head(100)
```



	Sentiment	News_statement	Predicted_Sentiment
0	neutral	According to Gran , the company has no plans t...	neutral
1	neutral	Technopolis plans to develop in stages an area...	neutral
2	negative	The international electronic industry company ...	negative
3	positive	With the new production plant the company woul...	positive
4	positive	According to the company 's updated strategy f...	positive
...
95	positive	Finnish financial group Aktia reports operatin...	positive
96	positive	Finnish high technology provider Vaahto Group ...	positive
97	positive	Net sales of Finnish food industry company L+Æ...	positive
98	positive	An individual promotion also generated slightl...	positive
99	positive	Biohit already services many current Genesis c...	positive

100 rows × 3 columns

```
accuracy = (df["Sentiment"].str.lower() == df["Predicted_Sentiment"]).mean()
print(f"Accuracy: {accuracy:.2%}")
```



Accuracy: 88.94%

Start coding or [generate](#) with AI.