Step 1: Install Required Libraries

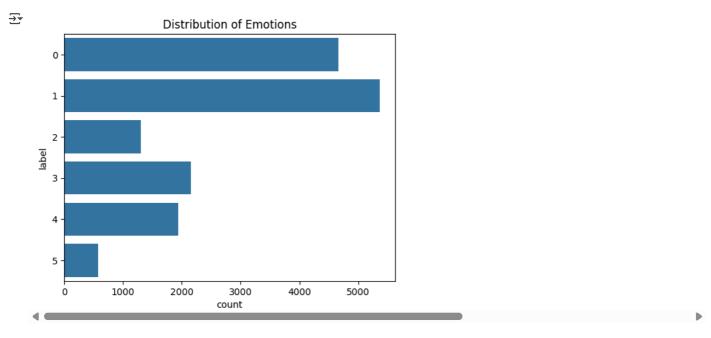
Emotion Detection from Social Media Posts

This notebook performs sentiment/emotion classification using a pretrained DistilBERT model. You can either use the HuggingFace Emotion dataset or upload your own CSV file.

```
!pip install transformers
!pip install datasets
!pip install seaborn
!pip install scikit-learn
Requirement already satisfied: transformers in /usr/local/lib/python3.11/dist-packages (4.51.3)
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         Downloading multiprocess-0.70.16-py311-none-any.whl.metadata (7.2 kB)
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# Step 2: Import Libraries
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
from sklearn.model_selection import train_test_split
from sklearn.metrics import classification_report
from datasets import load_dataset, Dataset
from \ transformers \ import \ AutoTokenizer, \ AutoModelForSequence Classification, \ Training Arguments, \ Trainer \ train
import torch
```

plt.show()

```
# Step 3: Option A - Use HuggingFace Emotion Dataset
use builtin dataset = True # Set this to False if uploading your own CSV
if use_builtin_dataset:
    dataset = load_dataset("emotion")
    df = dataset['train'].to_pandas()
/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 (<a href="https://huggingface.co/settings/tokens">https://huggingface.co/settings/tokens</a>), set it as :
     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(
     README.md: 100%
                                                                   9.05k/9.05k [00:00<00:00, 510kB/s]
     train-00000-of-00001.parquet: 100%
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     validation-00000-of-00001.parquet: 100%
                                                                                     127k/127k [00:00<00:00, 1.56MB/s]
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     test-00000-of-00001.parquet: 100%
     Generating train split: 100%
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     Generating validation split: 100%
                                                                               2000/2000 [00:00<00:00, 23281.38 examples/s]
                                                                          2000/2000 [00:00<00:00, 33057.90 examples/s]
     Generating test split: 100%
# Step 3: Option B - Upload Your Own CSV Dataset
# Run this cell if you want to upload your own file instead of using the HuggingFace dataset
if not use_builtin_dataset:
    from google.colab import files
    uploaded = files.upload()
    df = pd.read_csv(list(uploaded.keys())[0])
    df = df[['text', 'label']] # Ensure your CSV has 'text' and 'label' columns
    dataset = Dataset.from_pandas(df)
# Step 4: Visualize Emotion Distribution
sns.countplot(y='label', data=df)
plt.title("Distribution of Emotions")
```



```
# Step 5: Preprocessing
tokenizer = AutoTokenizer.from_pretrained("distilbert-base-uncased")
def tokenize(batch):
    return tokenizer(batch['text'], padding=True, truncation=True)
encoded_dataset = dataset.map(tokenize, batched=True)
```

```
tokenizer_config.json: 100%
                                                                       48.0/48.0 [00:00<00:00, 3.27kB/s]
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     vocab.txt: 100%
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     tokenizer.json: 100%
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     Map: 100%
                                                          2000/2000 [00:00<00:00, 6745.43 examples/s]
# Step 6: Load Pretrained Model for Classification
model = AutoModelForSequenceClassification.from_pretrained("distilbert-base-uncased", num_labels=len(set(df['label'])))
    Xet Storage is enabled for this repo, but the 'hf_xet' package is not installed. Falling back to regular HTTP download. For better [
     WARNING:huggingface_hub.file_download:Xet Storage is enabled for this repo, but the 'hf_xet' package is not installed. Falling back
     model.safetensors: 100%
                                                                    268M/268M [00:01<00:00, 244MB/s]
     Some weights of DistilBertForSequenceClassification were not initialized from the model checkpoint at distilbert-base-uncased and ar
     You should probably TRAIN this model on a down-stream task to be able to use it for predictions and inference.
# Step 7: Training Setup
training_args = TrainingArguments(
    output_dir="./results",
    learning_rate=2e-5,
    per_device_train_batch_size=16,
    per_device_eval_batch_size=16,
    num_train_epochs=2,
    weight_decay=0.01,
trainer = Trainer(
    model=model.
    args=training_args,
    train dataset=encoded_dataset['train'],
    eval_dataset=encoded_dataset['validation'] if use_builtin_dataset else encoded_dataset,
    tokenizer=tokenizer,
    compute_metrics=None
    <ipython-input-8-ab7856683ed2>:11: FutureWarning: `tokenizer` is deprecated and will be removed in version 5.0.0 for `Trainer.__init
       trainer = Trainer(
# Step 8: Train the Model
trainer.train()
```

```
wandb: WARNING The `run_name` is currently set to the same value as `TrainingArguments.output_dir`. If this was not intended, please
    wandb: Logging into wandb.ai. (Learn how to deploy a W&B server locally: https://wandb.me/wandb-server)
    wandb: You can find your API key in your browser here: https://wandb.ai/authorize?ref=models
    wandb: Paste an API key from your profile and hit enter: ......
    wandb: WARNING If you're specifying your api key in code, ensure this code is not shared publicly.
    wandb: WARNING Consider setting the WANDB_API_KEY environment variable, or running `wandb login` from the command line.
    wandb: No netrc file found, creating one.
    wandb: Appending key for api.wandb.ai to your netrc file: /root/.netrc
    wandb: Currently logged in as: starkcloudie (starkcloudie-company) to <a href="https://api.wandb.ai">https://api.wandb.ai</a>. Use `wandb login --relogin` to force relogin to force relogin.
    Tracking run with wandb version 0.19.10
    Run data is saved locally in /content/wandb/run-20250429_153001-ippyltuq
    Syncing run ./results to Weights & Biases (docs)
    View project at https://wandb.ai/starkcloudie-company/huggingface
    View run at https://wandb.ai/starkcloudie-company/huggingface/runs/ippyltuq
                                              [ 15/2000 01:49 < 4:39:28, 0.12 it/s, Epoch 0.01/2]
     Step Training Loss
```

```
# Step 9: Evaluate the Model

preds_output = trainer.predict(encoded_dataset['test'] if use_builtin_dataset else encoded_dataset)
y_pred = torch.argmax(torch.tensor(preds_output.predictions), axis=1)
y_true = torch.tensor(encoded_dataset['test']['label'] if use_builtin_dataset else df['label'])

# Classification Report
print(classification_report(y_true, y_pred))

***

[ 15/2000 01:49 < 4:39:28, 0.12 it/s, Epoch 0.01/2]

Step Training Loss

[ 38/125 03:48 < 08:57, 0.16 it/s]</pre>
```

```
# Optional: Deploy with Gradio
!pip install gradio

import gradio as gr

def classify_emotion(text):
    inputs = tokenizer(text, return_tensors="pt", truncation=True, padding=True)
    outputs = model(**inputs)
    prediction = torch.argmax(outputs.logits, dim=1).item()
    labels = dataset.features['label'].names if use_builtin_dataset else sorted(df['label'].unique())
    return f"Detected Emotion: {labels[prediction]}"

gr.Interface(fn=classify_emotion, inputs="text", outputs="text", title="Emotion Detector from Social Media").launch()
```

```
→ Collecting gradio
      Downloading gradio-5.27.1-py3-none-any.whl.metadata (16 kB)
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    Requirement already satisfied: anyio<5.0,>=3.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (4.9.0)
    Collecting fastapi<1.0,>=0.115.2 (from gradio)
      Downloading fastapi-0.115.12-py3-none-any.whl.metadata (27 kB)
    Collecting ffmpy (from gradio)
      Downloading ffmpy-0.5.0-py3-none-any.whl.metadata (3.0 kB)
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    Collecting ruff>=0.9.3 (from gradio)
      Downloading ruff-0.11.7-py3-none-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (25 kB)
    Collecting safehttpx<0.2.0,>=0.1.6 (from gradio)
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    Downloading ffmpy-0.5.0-py3-none-any.whl (6.0 kB)
    Downloading pydub-0.25.1-py2.py3-none-any.whl (32 kB)
    Installing collected packages: pydub, uvicorn, tomlkit, semantic-version, ruff, python-multipart, groovy, ffmpy, aiofiles, starlette
    Successfully installed aiofiles-24.1.0 fastapi-0.115.12 ffmpy-0.5.0 gradio-5.27.1 gradio-client-1.9.1 groovy-0.1.2 pydub-0.25.1 pyth
    It looks like you are running Gradio on a hosted a Jupyter notebook. For the Gradio app to work, sharing must be enabled. Automatica
```