```
# %%capture
# #!unzip Datasets.zip
# from google.colab import drive
# # Mount the Google Drive
# drive.mount('/content/drive')
# %capture
# !pip install datasets
# !pip install transformers
# !pip install librosa
# !pip install jiwer
# !pip install evaluate
import os
import datasets
import pandas as pd
from sklearn.model_selection import train_test_split
from datasets import Dataset
# Set paths
\verb|csv_path| = "/home/muzaffar/Desktop/Research/papers/5-paper| Wav2Vec/5. Wave2vec Whisper Paper/KASHMIRI/experiment5/final.csv"| Wave2vec Whisper Paper/KASHMIRI/experiment5/final.csv | Wave2vec Whisper W
audio_folder = "/home/muzaffar/Desktop/Research/papers/5-paper Wav2Vec/5. Wave2vec Whisper Paper/KASHMIRI/experiment5/final-w
# Load the CSV
df = pd.read_csv(csv_path)
df = pd.read_csv(csv_path)
# Ensure the column names match
df.columns = ["Filename", "Transcription"] # Rename columns if needed
# Append '.wav' to the file names
df['Filename'] = df['Filename'].apply(lambda x: f"{x}.wav")
# Add full paths to the audio files
df['file_path'] = df['Filename'].apply(lambda x: os.path.join(audio_folder, x))
# Verify that all audio files exist
missing_files = df[~df['file_path'].apply(os.path.exists)]
if not missing files.empty:
      print("The following audio files are missing:")
       print(missing_files)
       raise FileNotFoundError("Some audio files listed in the CSV are missing in the folder.")
# Split into train (27) and test (3)
train_df, test_df = train_test_split(df, test_size=0.2, random_state=42)
# Save splits to CSV for reference
train_csv_path = "train_split.csv'
test_csv_path = "test_split.csv"
train_df.to_csv(train_csv_path, index=False)
test_df.to_csv(test_csv_path, index=False)
# Convert to HuggingFace Dataset format
train_dataset = Dataset.from_pandas(train_df)
test_dataset = Dataset.from_pandas(test_df)
# Save HuggingFace datasets
train_dataset_path = "train_dataset"
test_dataset_path = "test_dataset"
train_dataset.save_to_disk(train_dataset_path)
test_dataset.save_to_disk(test_dataset_path)
# Output
print(f"Train set saved to: {train_csv_path} and {train_dataset_path}")
print(f"Test set saved to: {test_csv_path} and {test_dataset_path}")
🏂 /home/muzaffar/anaconda3/envs/tf14/lib/python3.11/site-packages/tqdm/auto.py:21: TqdmWarning: IProgress not found. Pleas
           from .autonotebook import tqdm as notebook_tqdm
        Saving the dataset (1/1 shards): 100%
                                                                                              2600/2600 [00:00<00:00, 726044.63 examples/s]
                                                                                       Saving the dataset (1/1 shards): 100%
                                                                                          650/650 [00:00<00:00, 357687.96 examples/s]Train set saved to: train_s
        Test set saved to: test_split.csv and test_dataset
from datasets import load_from_disk
train_dataset = load_from_disk("train_dataset")
test_dataset = load_from_disk("test_dataset")
```

```
print(train_dataset)
print(test_dataset)
```

```
/home/muzaffar/anaconda3/envs/tf14/lib/python3.11/site-packages/tqdm/auto.py:21: TqdmWarning: IProgress not found. Pleas
      \verb|from .autonotebook import tqdm| as notebook\_tqdm|\\
    Dataset({
        features: ['Filename', 'Transcription', 'file_path', '__index_level_0__'],
        num_rows: 2600
    })
    Dataset({
        features: ['Filename', 'Transcription', 'file_path', '__index_level_0__'],
        num_rows: 650
    })
from datasets import ClassLabel
import random
import pandas as pd
from IPython.display import display, HTML
def show_random_elements(dataset, num_examples=10):
    assert num_examples <= len(dataset), "Can't pick more elements than there are in the dataset."
   picks = []
    for _ in range(num_examples):
        pick = random.randint(0, len(dataset)-1)
       while pick in picks:
           pick = random.randint(0, len(dataset)-1)
        picks.append(pick)
   df = pd.DataFrame(dataset[picks])
   display(HTML(df.to_html()))
```

show_random_elements(train_dataset)

	Fil	ename	Transcription	file_path	index_level_0
	0 814024	44.wav	گُنڈِتھ ہیکان زِ بوزن وول چُھ حاًران گڑھان	/home/muzaffar/Desktop/Research/papers/5-paper Wav2Vec/5. Wave2vec Whisper Paper/KASHMIRI/experiment5/final- waves/8140244.wav	243
		shrat2- 13.wav	و٥پر زبانو يا له ترجمه ته تلخيص کرتھ اننه آمرِ	/home/muzaffar/Desktop/Research/papers/5-paper Wav2Vec/5. Wave2vec Whisper Paper/KASHMIRI/experiment5/final-waves/ishrat2- 01_13.wav	1863
	2 02_23	jhon- 34.wav	النز آسنگ دعویٰ څھ گہی یاہ مسلمان رد کورمُت	/home/muzaffar/Desktop/Research/papers/5-paper Wav2Vec/5. Wave2vec Whisper Paper/KASHMIRI/experiment5/final-waves/jhon- 02_234.wav	2697
	08_	uddy1- 13.wav	وولۍ اگریږ تاپھ یہ گاش نصیبږ آسه	/home/muzaffar/Desktop/Research/papers/5-paper Wav2Vec/5. Wave2vec Whisper Paper/KASHMIRI/experiment5/final-waves/guddy1- 08_13.wav	1223
	4 01.1_	jhon- 77.wav	تروو نہ تمی پئن س⊓کھِ شہئل آدن گام میأن کنی چھہ سانہ قوائس لورک اصِل پرستان سانین گامن ہُند رون مالمز کوڈ چھہ وے	/home/muzaffar/Desktop/Research/papers/5-paper Wav2Vec/5. Wave2vec Whisper Paper/KASHMIRI/experiment5/final-waves/jhon- 01.1_77.wav	2485
	5	rafiya- 59.wav	زوئیھ نہ حرکت کیا ہم گوھی پکہ صاف شراکھ	/home/muzaffar/Desktop/Research/papers/5-paper Wav2Vec/5. Wave2vec Whisper Paper/KASHMIRI/experiment5/final-waves/rafiya- 01_59.wav	2976
	6 815022	20.wav	مِن مِنز بِياتُهِ بانهِ الجميت مچھ يهِ زِ	/home/muzaffar/Desktop/Research/papers/5-paper Wav2Vec/5. Wave2vec Whisper Paper/KASHMIRI/experiment5/final- waves/8150220.wav	616
	7 i	shrat1-	تس و په محته به کاله از	/home/muzaffar/Desktop/Research/papers/5-paper Wav2Vec/5. Wave2vec Whisner Paner/KASHMIRI/experiment5/final-waves/ishrat1-	1693

If there are any unwanted special characters in the dataset, we can remove them here, since there are none, I am keeping that as it is.

```
def extract_all_chars(batch):
    all_text = " ".join(batch["Transcription"])
    vocab = list(set(all_text))
    return {"vocab": [vocab], "all_text": [all_text]}

vocab_train = train_dataset.map(extract_all_chars, batched=True, batch_size=-1, keep_in_memory=True, remove_columns=train_dataset.map(extract_all_chars, batched=True, batch_size=-1, keep_in_memory=True, remove_columns=test_dataset.map(extract_all_chars, batched=True, batch_size=-1, keep_in_memory=True, remove_columns=test_dataset.map(extract_all_chars, batched=True, batch_size=-1, keep_in_memory=True, remove_columns=test_dataset.map(extract_all_chars, batched=True, batch_size=-1, keep_in_memory=True, remove_columns=test_dataset.map(extract_all_chars, batched=True, batch_size=-1, keep_in_memory=True, remove_columns=train_dataset.map(extract_all_chars, batched=True, batch_size=-1, keep_in_memory=True, remove_columns=train_dataset.map(extract_all_chars, batched=True, batch_size=-1, keep_in_memory=True, remove_columns=test_dataset.map(extract_all_chars, batch_size=-1, keep_in_memory=True, remove_columns=test_dataset.map(extract_all_chars, batch_size=-1, kee
```

Show hidden output

```
vocab_dict["|"] = vocab_dict[" "]
del vocab_dict[" "]
vocab_dict["[UNK]"] = len(vocab_dict)
vocab_dict["[PAD]"] = len(vocab_dict)
len(vocab_dict)
→ 60
import ison
with open('vocab.json', 'w') as vocab_file:
    json.dump(vocab_dict, vocab_file)
from transformers import Wav2Vec2CTCTokenizer
tokenizer = Wav2Vec2CTCTokenizer.from_pretrained("./", unk_token="[UNK]", pad_token="[PAD]", word_delimiter_token="|", clear
from transformers import Wav2Vec2FeatureExtractor
feature_extractor = Wav2Vec2FeatureExtractor(feature_size=1, sampling_rate=16000, padding_value=0.0, do_normalize=True, retu
from transformers import Wav2Vec2Processor
processor = Wav2Vec2Processor(feature_extractor=feature_extractor, tokenizer=tokenizer)
train_dataset[0]["file_path"]
    '/home/muzaffar/Desktop/Research/papers/5-paper Wav2Vec/5. Wave2vec Whisper Paper/KASHMIRI/experiment5/final-
    waves/farhat-03_21.wav
Replacing the File Path with Actual Audio.
from datasets import load_from_disk, Audio
# Load datasets
train_dataset = load_from_disk("train_dataset") # Adjust to your actual path
test_dataset = load_from_disk("test_dataset")
# Rename 'file_path' to 'audio'
train_dataset = train_dataset.rename_column("file_path", "audio")
test_dataset = test_dataset.rename_column("file_path", "audio")
# # Cast the 'audio' column to use the Audio feature
train_dataset = train_dataset.cast_column("audio", Audio(sampling_rate=16_000))
test_dataset = test_dataset.cast_column("audio", Audio(sampling_rate=16_000))
# # Drop unnecessary columns if needed
train_dataset = train_dataset.remove_columns(["__index_level_0__"])
test_dataset = test_dataset.remove_columns(["__index_level_0__"])
# # Verify the dataset structure
print(train dataset)
print(test_dataset)
# # Inspect the first example
print(train_dataset[0])
→ Dataset({
        features: ['Filename', 'Transcription', 'audio'],
        num_rows: 2600
     })
    Dataset({
        features: ['Filename', 'Transcription', 'audio'],
        num_rows: 650
     })
     ('Filename': 'farhat-03_21.wav', 'Transcription': 'مرا قبم پتم تم پیند،' xa0'(), 'audio': {'path': '/ho (0.0256958 , 0.02392578), 'sampling_rate': 16000}
#print(test_dataset[0]['audio'])
rand_int = random.randint(0, len(train_dataset))
print("Target text:", train_dataset[rand_int]["Transcription"])
print("Input array shape:", train_dataset[rand_int]["audio"]["array"].shape)
print("Sampling rate:", train_dataset[rand_int]["audio"]["sampling_rate"])
```

```
→ Target text: يعنى لل ماجم تراو شُرى سندس دبانس مثز ز اونگج تم تيمو مثز دراو Input array shape: (121391,)
    Sampling rate: 16000
def prepare_dataset(batch):
   audio = batch["audio"]
    # batched output is "un-batched"
   batch["input_values"] = processor(audio["array"], sampling_rate=audio["sampling_rate"]).input_values[0]
   batch["input_length"] = len(batch["input_values"])
   batch["labels"] = processor(text=batch["Transcription"]).input_ids
    return batch
train dataset = train dataset.map(prepare dataset. remove columns=train dataset.column names)
test_dataset = test_dataset.map(prepare_dataset, remove_columns=test_dataset.column_names)
import torch
from dataclasses import dataclass, field
from typing import Any, Dict, List, Optional, Union
@dataclass
class DataCollatorCTCWithPadding:
   Data collator that will dynamically pad the inputs received.
       processor (:class:`~transformers.Wav2Vec2Processor`)
            The processor used for processing the data.
        padding (:obj:`bool`, :obj:`str` or :class:`~transformers.tokenization_utils_base.PaddingStrategy`, `optional`, defa
            Select a strategy to pad the returned sequences (according to the model's padding side and padding index)
            *:obj:`True` or :obj:`'longest'`: Pad to the longest sequence in the batch (or no padding if only a single
            *:obj:`'max\_length'`: Pad to a maximum length specified with the argument :obj:`max\_length` or to the
              maximum acceptable input length for the model if that argument is not provided.
            *:obj:`False` or :obj:`'do_not_pad'` (default): No padding (i.e., can output a batch with sequences of
              different lengths).
   processor: Wav2Vec2Processor
   padding: Union[bool, str] = True
               _(self, features: List[Dict[str, Union[List[int], torch.Tensor]]]) -> Dict[str, torch.Tensor]:
        # split inputs and labels since they have to be of different lenghts and need
        # different padding methods
        input_features = [{"input_values": feature["input_values"]} for feature in features]
        label_features = [{"input_ids": feature["labels"]} for feature in features]
        batch = self.processor.pad(
            input_features,
            padding=self.padding,
            return_tensors="pt",
        with self.processor.as_target_processor():
            labels_batch = self.processor.pad(
                label_features,
                padding=self.padding,
                return_tensors="pt",
        # replace padding with -100 to ignore loss correctly
        labels = labels_batch["input_ids"].masked_fill(labels_batch.attention_mask.ne(1), -100)
        batch["labels"] = labels
        return batch
data_collator = DataCollatorCTCWithPadding(processor=processor, padding=True)
import evaluate
wer_metric = evaluate.load("wer")
    2025-04-05 08:41:28.456292: E external/local_xla/xla/stream_executor/cuda/cuda_fft.cc:477] Unable to register cuFFT fact
    WARNING: All log messages before absl::InitializeLog() is called are written to STDERR
    E0000 00:00:1743822688.465556 27665 cuda dnn.cc:8310] Unable to register cuDNN factory: Attempting to register factory
```

27665 cuda_blas.cc:1418] Unable to register cuBLAS factory: Attempting to register facto

E0000 00:00:1743822688.468393

2025-04-05 08:41:28.478105: I tensorflow/core/platform/cpu_feature_guard.cc:210] This TensorFlow binary is optimized to To enable the following instructions: AVX2 FMA, in other operations, rebuild TensorFlow with the appropriate compiler fl

```
from evaluate import load

cer_metric = load("cer")
```

includes both WER and CER

```
def compute_metrics(pred):
    pred_logits = pred.predictions
    pred_ids = np.argmax(pred_logits, axis=-1)
   # Replace padding token (-100) with pad_token_id
   pred.label_ids[pred.label_ids == -100] = processor.tokenizer.pad_token_id
    # Decode predictions and labels to strings
   pred_str = processor.batch_decode(pred_ids)
    label_str = processor.batch_decode(pred.label_ids, group_tokens=False)
    if isinstance(label_str, list):
        if isinstance(pred_str, list) and len(pred_str) == len(label_str):
            for index in random.sample(range(len(label_str)), 3):
                print(f'reference: "{label_str[index]}"')
                print(f'predicted: "{pred_str[index]}"')
        else:
            for index in random.sample(range(len(label_str)), 3):
                print(f'reference: "{label_str[index]}"')
                print(f'predicted: "{pred_str}"')
   # Compute WER
   wer = wer_metric.compute(predictions=pred_str, references=label_str)
   # Compute CER
   cer = cer_metric.compute(predictions=pred_str, references=label_str)
    return {"wer": wer, "cer": cer}
from transformers import Wav2Vec2ForCTC
model = Wav2Vec2ForCTC.from_pretrained(
    "facebook/wav2vec2-xls-r-300m",
    #'facebook/wav2vec2-large-xlsr-53',
   attention_dropout=0.05,
   hidden_dropout=0.1,
   feat_proj_dropout=0.1,
   mask_time_prob=0.05,
    layerdrop=0.01377,
    gradient_checkpointing=True,
    ctc_loss_reduction="mean",
   ctc_zero_infinity=True,
   pad_token_id=processor.tokenizer.pad_token_id,
    vocab_size=len(processor.tokenizer),
   Some weights of Wav2Vec2ForCTC were not initialized from the model checkpoint at facebook/wav2vec2-xls-r-300m and are ne
    You should probably TRAIN this model on a down-stream task to be able to use it for predictions and inference.
# from transformers import Wav2Vec2ForCTC
# model = Wav2Vec2ForCTC.from_pretrained(
      'facebook/wav2vec2-large-xlsr-53',
#
      attention_dropout=0.05,
#
      activation_dropout=0.1,
     hidden_dropout=0.1,
      feat_proj_dropout=0.01249,
#
#
      final_dropout=0.0,
```

mask_time_prob=0.05,

mask_time_length=10,

mask_feature_prob=0,

mask_feature_length=10, layerdrop=0.01377,

gradient_checkpointing=True,

#

#

#

```
ctc_loss_reduction="mean",
      ctc_zero_infinity=True,
#
      bos_token_id=processor.tokenizer.bos_token_id,
#
      eos_token_id=processor.tokenizer.eos_token_id,
      pad_token_id=processor.tokenizer.pad_token_id,
#
      vocab_size=len(processor.tokenizer.get_vocab())
# )
model.freeze_feature_encoder()
# import huggingface_hub
# huggingface_hub.login()
#repo_name = "wav2vec2-kashmiri-jhon-data-one"
save_dir = "/home/muzaffar/Desktop/Research/papers/5-paper Wav2Vec/5. Wave2vec Whisper Paper/KASHMIRI/experiment5/training_a
from transformers import TrainingArguments
training_args = TrainingArguments(
    output_dir=save_dir,
    group_by_length=True,
    per_device_train_batch_size=8,
    per_device_eval_batch_size=8,
    gradient_accumulation_steps=2,
    evaluation_strategy="steps",
    num_train_epochs=30,
    fp16=True,
    save_steps=500,
    eval_steps=500,
    logging_steps=10,
    learning_rate=4e-4,
    warmup_steps=250,
    save_total_limit=2,
    dataloader_num_workers=24
/home/muzaffar/anaconda3/envs/tf14/lib/python3.11/site-packages/transformers/training_args.py:1594: FutureWarning: `eval
       warnings.warn(
# from transformers import TrainingArguments
# training_args = TrainingArguments(
   output_dir=repo_name,
   group_by_length=True,
#
   per_device_train_batch_size=2,
#
   gradient_accumulation_steps=2,
   eval_strategy="steps",
#
   num_train_epochs=20,
#
   gradient_checkpointing=True,
#
   fp16=True.
#
   save_steps=20,
#
   eval_steps=20,
#
   logging_steps=40,
#
   learning_rate=3e-4,
#
   warmup_steps=50,
   save_total_limit=2,
#
   push_to_hub=True,
#)
# import numpy as np
# from transformers import Trainer
# trainer = Trainer(
#
      model=model,
      data_collator=data_collator,
#
      args=training_args,
#
      compute_metrics=compute_metrics,
      train_dataset=train_dataset,
#
      eval_dataset=test_dataset,
#
      tokenizer=processor.feature_extractor,
#)
import numpy as np
from transformers import Trainer
# Assuming processor is an instance of Wav2Vec2Processor (or similar for your model)
```

```
trainer = Trainer(
         model=model,
         data collator=data collator,
         args=training_args,
         compute_metrics=compute_metrics,
         train_dataset=train_dataset,
         eval dataset=test dataset,
         processing class=processor. # Use the processor directly for feature extraction
print("step1")
train result = trainer.train()
print("step2")
metrics = train_result.metrics
print("step3")
max_train_samples = len(train_dataset)
metrics["train_samples"] = min(max_train_samples, len(train_dataset))
print("step4")
trainer.save_model()
print("model created!")
trainer.log_metrics("train", metrics)
trainer.save_metrics("train", metrics)
trainer.save state()
         step1
 \rightarrow
           /home/muzaffar/anaconda3/envs/tf14/lib/python3.11/site-packages/torch/utils/data/dataloader.py:624: UserWarning: This Da
                warnings.warn(
           /home/muzaffar/anaconda3/envs/tf14/lib/python3.11/site-packages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
                warnings.warn(
           /home/muzaffar/anaconda3/envs/tf14/lib/python3.11/site-packages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
                warnings.warn(
           warnings.warn(
           /home/muzaffar/anaconda3/envs/tf14/lib/python3.11/site-packages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
               warnings.warn(
           /home/muzaffar/anaconda3/envs/tf14/lib/python3.11/site-packages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
               warnings.warn(
           /home/muzaffar/anaconda 3/envs/tf14/lib/python 3.11/site-packages/transformers/models/wav2vec2/processing\_wav2vec2.py: 174: a constant of the following packages and the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages. The following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of the following packages are also become a constant of 
                warnings.warn(
           /home/muzaffar/anaconda3/envs/tf14/lib/python3.11/site-packages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
                warnings.warn(
           /home/muzaffar/anaconda3/envs/tf14/lib/python3.11/site-packages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
                warnings.warn(
           /home/muzaffar/anaconda3/envs/tf14/lib/python3.11/site-packages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
                warnings.warn(
           warnings.warn(
           /home/muzaffar/anaconda3/envs/tf14/lib/python3.11/site-packages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
                warnings.warn(
           /home/muzaffar/anaconda3/envs/tf14/lib/python3.11/site-packages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
                warnings.warn(
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1.248900

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trainer.evaluate() # Evaluate the model on the test dataset

```
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import torch
import torchaudio
import librosa
import numpy
from transformers import Wav2Vec2ForCTC, Wav2Vec2Processor
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model_name_or_path = "/home/muzaffar/Desktop/Research/papers/5-paper Wav2Vec/5. Wave2vec Whisper Paper/KASHMIRI/experiment5/
device = torch.device("cuda" if torch.cuda.is_available() else "cpu")
print(model_name_or_path, device)
processor = Wav2Vec2Processor.from_pretrained(model_name_or_path)
model = Wav2Vec2ForCTC.from_pretrained(model_name_or_path).to(device)
def speech_file_to_array_fn(batch):
         speech_array, sampling_rate = torchaudio.load(batch["file_path"])
         speech_array = speech_array.squeeze().numpy()
         #speech_array = librosa.resample(np.asarray(speech_array), sampling_rate, processor.feature_extractor.sampling_rate)
         speech_array = librosa.resample(y=np.asarray(speech_array), orig_sr=sampling_rate, target_sr=processor.feature_extractor
         batch["speech"] = speech_array
         return batch
def predict(batch):
         features = processor(
                  batch["speech"],
                   sampling_rate=processor.feature_extractor.sampling_rate,
                   return_tensors="pt",
                  padding=True
         input_values = features.input_values.to(device)
         #attention_mask = features.attention_mask.to(device)
         attention_mask = features.attention_mask.to(device) if "attention_mask" in features else None
         with torch.no_grad():
                   logits = model(input values, attention mask=attention mask).logits
```

```
pred_ids = torch.argmax(logits, dim=-1)
                 batch["predicted_N_LM"] = processor.batch_decode(pred_ids)
                  return batch
import torchaudio
import librosa
from datasets import load_dataset
import numpy as np
dataset = load dataset("csv", data files={"/home/muzaffar/Desktop/Research/papers/5-paper Wav2Vec/5. Wave2vec Whisper Paper/
dataset = dataset.map(speech_file_to_array_fn)
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                     waxqings.warn()
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      warnings.warn(
Findmer/maraffandagmanosda314pvsbtffv4hdab/pytbond-pa/kaatespaakages/taansfoodmeas/model56vqv2mec24psmccssongawav2vec2.py:174:
 <โพลสกิร์¤gตาพอุทุยิท์(*args, **kwargs
/homggmusetfaroamaconda3/envs/tf14/lib/python3.11/site-packages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
      wassings.watpbe": self._format_type,
/homggmuzaffafóamato_mpaðgsnysé&f<del>14/fàbMay_t</del>kmaðg3]/site-packages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
waฏฏ$ngs.wacolumns": self._format_columns,
/homggmuzaffagóapatoadagáenumné#f146ðiþ/pwihpnð_al%_setumnskages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
      wasagings.warn(
/homg6mu#affpr/amaecpda3/mnws6ff14/lib/python3.11/site-packages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
—_wa582nggtwaUnion["Dataset", "DatasetDict"] = func(self, *args, **kwargs)
/homgชตบสอร์ลอะรอกอะอุธปลุชิตตนธรรรรคระบรรราช (โประการและเลือน เลือน เล
      wassandsrwaspoly format to the output
/home/muzaffar/an aconda 3/envs/tf14/lib/python 3.11/site-packages/transformers/models/wav2vec2/processing\_wav2vec2.py:174:
Fiwerningsewadms/envs/tf14/lib/python3.11/site-packages/datasets/arrow_dataset.py:3079, in Dataset.map(self, function, whomeimuzaesarvanacondmag/enpastesaraevayaec2.py:174:
lowarminates and subject to the state of the
      wa@73ng$ - ₩æansformed dataset is None:
/homo/muzaffar/anafondels/wav2vec2/processing_wav2vec2.py:174: wagnings.warn(unit="examples",
/homo/muzaffar/amatandepBaentsft4/lib/python3.11/site-packages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
      waonings.warn(desc=desc or "Map"
/home/muzaffaráanajaanda3/envs/tf14/lib/python3.11/site-packages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
  ->wagni
                                              for rank, done, content in Dataset._map_single(**dataset_kwargs):
                                                         if done:5/tf14/lib/python3.11/site-packages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
/homagau
      wa081n
                                                                     shards_done += 1
/home/muzaffar/anaconda3/envs/\overline{t}f14/lib/python3.11/site-packages/transformers/models/wav2vec2/processing\_wav2vec2.py:174:
Fivern; #BdacwddBis/envs/tf14/lib/python3.11/site-packages/datasets/arrow_dataset.py:3546, in Dataset._map_single(shard, fbnee/muzawien/andscoeda3%enws/tahk/lib/pytbonan3]/batehpackbgee/tsamefodmops/webackbgee/sway2vem3/procemanag_waway_en2memofy4:
cawAeninge-wanne writer_batch_size, features, disable_nullable, fn_kwargs, new_fingerprint, rank, offset)
/homsianuiaffupdameadanda3/envs/tf14/lib/python3.11/site-packages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
      washings.wafnwriter is not None:
washings.wafntmp_file is not None:
 /homs#Muzaffar/ammpomda@/emwsetf14/lib/python3.11/site-packages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
      warnings.warn(
figue/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/figure/fig
clwaeningeawarn(
/hom@jmuzaff#r@anagonda3/enys/tflah/tyb/pythom3.Al/sitatpackages/transformers/models/wav2vec2/processing_wav2vec2.py:174:
     wa685ngs.waenf.hkey_record = []
 \textit{\#hom636} uself.write\_examples\_on\_file() b/python3.11/site\_packages/transformers/models/wav2vec2/processing\_wav2vec2.py:174: \\
WagBingsiWasnkema is known, infer features even if no examples were written
Traings.iokseifepaiornoerdeprmsaeedadYselfhoukemuse Trainer.processing_class instead.
Trainer tokenizer is now deprecated. You should use Trainer processing_class instead.
figue-Amunatiandamenonde31emvsbt6v4Ndab/pytbon2-pa/kaagespaakagestaanahowmere/mpde495wayAvec2/processing_wav2vec2.py:174:
Arwawwingerwarnte_examples_on_file(self)
```

/homegonuzaffatkanaconda3/envs/tf14/lib/pvthon3.11/site-packages/transformers/models/wav2vec2/processing wav2vec2.pv:174: