

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

```
from google.colab import drive
drive.mount('/content/drive')
```



Mounted at /content/drive

```
# Define project directory in G
project_dir = '/content/drive/M
data_dir = '/content/drive/MyDr
original_audio_dir = '/content/
```

```
filtered_audio_dir = '/content/
manifest_path = '/content/drive
metadata_path = '/content/drive
filtered_manifest_path = '/cont
```

```
import pandas as pd
import shutil
import json
import os
# Define the target language
target_language = "Dogri" # Se
```

```
# Load the metadata file
metadata_df = pd.read_csv('/con
```

```
# Filter rows by target languag
language_data = metadata_df[met
```

```
# Step 1: Create a directory fo
os.makedirs(filtered_audio_dir,
```

```
# Step 2: Copy relevant audio f
for index, row in language_data
    file_name = row['audio_file
    source_path = os.path.join(
    target_path = os.path.join(
```

```
# Copy file if it exists
if os.path.exists(source_pa
    os.makedirs(os.path.dir
    shutil.copy(source_path
    print(f"Copied {file_na
```

js_base.json

__init__.py

requirements.txt X

...

```
1
2
3
4 Cython
5 librosa
6 matplotlib
7 numpy
8 scipy
9 soundfile
10 torch==1.7.1+cu101 # Keep this if your Colab runtime su
11
```



```
import librosa
import soundfile as sf
import os

# Set the sample rate you want
sample_rate = 22050 # Standard

# Define the path to the filter
filtered_audio_dir = '/content/'

# Normalize and resample audio
for file_name in os.listdir(fil
    if file_name.endswith('.wav
        file_path = os.path.joi
        # Load audio file and r
        audio, sr = librosa.loa
        # Normalize the volume
        normalized_audio = libr
        # Save the normalized a
        sf.write(file_path, nor
        print(f"Normalized and

import json
import random
import os

# Load the filtered manifest
filtered_manifest_path = '/cont
with open(filtered_manifest_pat
    data = json.load(f)

# Shuffle the data to ensure ra
random.shuffle(data)

# Define split ratios
train_split = int(0.8 * len(dat
val_split = int(0.9 * len(data)

# Split the data
train_data = data[:train_split]
val_data = data[train_split:val
test_data = data[val_split:]

# Save each split to Google Dri
data_dir = '/content/drive/MyDr
with open(os.path.join(data_dir
    json.dump(train_data, f, in
with open(os.path.join(data_dir
```

```

json.dump(val_data, f, inde
with open(os.path.join(data_dir
json.dump(test_data, f, ind

print("Data split complete: tra

```

⇒ Data split complete: train,



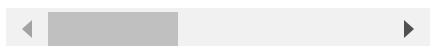
```
!git clone https://github.com/j
```

⇒ Cloning into 'vits'...

```

remote: Enumerating objects
remote: Total 81 (delta 0),
Receiving objects: 100% (81
Resolving deltas: 100% (22/

```



```
%cd vits
```

⇒ /content/vits

```
!pip install -r requirements.txt
```

⇒ Collecting Cython==0.29.21
 Downloading Cython-0.29.2
 Collecting librosa==0.8.0 (
 Downloading librosa-0.8.0

```

Preparing metadata (setup
Collecting matplotlib==3.3.
Downloading matplotlib-3.

```

```

Preparing metadata (setup
Collecting numpy==1.18.5 (f
Downloading numpy-1.18.5.

```

```

Installing build dependen
Getting requirements to b
error: subprocess-exited-

```

```

× Preparing metadata (pyp
  exit code: 1
  ↳ See above for output.

```

```

note: This error originat
Preparing metadata (pypro
error: metadata-generation-

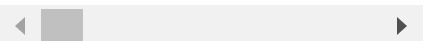
```

× Encountered error while g
 ↳ See above for output.

note: This is an issue with
hint: See above for details

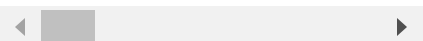
```
!pip install Cython librosa mat
```

↳ Looking in links: <https://d>
 Requirement already satisfi
 Requirement already satisfi
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 Requirement already satisfi
ERROR: Could not find a ver
ERROR: No matching distribu



```
!pip install torch==1.13.1+cu11
```

↳ Looking in links: <https://d>
 Collecting torch==1.13.1+cu
 Downloading <https://downl>
 Requirement already satisfi
 Installing collected packag
 Attempting uninstall: tor
 Found existing installa
 Uninstalling torch-2.5.
 Successfully uninstal
ERROR: pip's dependency res
torchaudio 2.5.0+cu121 requ
torchvision 0.20.0+cu121 re
 Successfully installed torc



```
!pip install Cython librosa matpl
```

↳ Requirement already satisfi
 Requirement already satisfi
 Requirement already satisfi
 Requirement already satisfi
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 Requirement already satisfi
 Requirement already satisfi


```
%pwd
```

```
↳ '/content/vits'
```

```
!python train.py -c configs/ljs_t
```

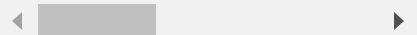
```
↳
```



```
'x': [(<numl
DEBUG:numba.core.ssa:SSA
Traceback (most recent c
File "/content/vits/tr
    from data_utils impo
File "/content/vits/da
    from text import tex
File "/content/vits/te
    from text import cle
File "/content/vits/te
    from unicode import
ModuleNotFoundError: No
```

```
!pip install unicode
```

```
Collecting unicode
  Downloading Unicode-1.3
  Downloading Unicode-1.3.8
-----
Installing collected packag
Successfully installed unid
```



```
!python train.py -c configs/ljs_t
```




```

DEBUG:numba.core.byteflow:
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DEBUG:numba.core.byteflow:
AdaptBlockInfo(insts=((0
DEBUG:numba.core.interpre
    x = arg(0, name=x)
    $const4.1 = const(in
    $6binary_subscr.2 =
    $const10.4 = const(i
    $12binary_subscr.5 =
    $14compare_op.6 = $6
    $const18.8 = const(i
    $20binary_subscr.9 =
    $const24.11 = const(
    $26binary_subscr.12
    $28compare_op.13 = $
    $30binary_and.14 = $
    $32return_value.15 =
    return $32return_val

```

```

Traceback (most recent c
File "/content/vits/tr
from data_utils impo
File "/content/vits/da
from text import tex
File "/content/vits/te
from text import cle
File "/content/vits/te
from phonemizer impo
ModuleNotFoundError: No

```

!pip install phonemizer



Downloading colorlog-6
Collecting bibtexparser>

```
!python train.py -c configs/ljs_t
```



```

DEBUG:numba.core.byteflow:
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```

```

Traceback (most recent c
File "/content/vits/tr
from models import (
File "/content/vits/mo
import monotonic_alig
File "/content/vits/mo
from .monotonic_alig
ModuleNotFoundError: No

```

```
%cd /content/vits/monotonic_alig
```

```
→ /content/vits/monotonic_alig
```

```
!python setup.py build_ext --in
```

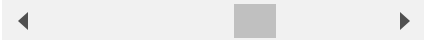


str' for now (Py3). This has

exceptions.

ceptions.

exceptions.



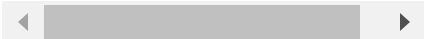
```
!mkdir -p /content/vits/monoton
```

Double-click (or enter) to edit

```
%cd /content/vits/monotonic_ali
```



```
/content/vits/monotonic_ali
```



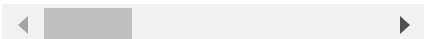
```
!cythonize -3 core.pyx
```

Double-click (or enter) to edit

```
!python setup.py build_ext --in
```



```
error: could not create 'mo
```



```
!mkdir -p /content/vits/monoton
```

```
!ls -la /content/vits/monotonic,
```

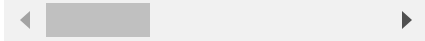


```
total 1024
drwxr-xr-x 4 root root    4
drwxr-xr-x 9 root root    4
```

```
drwxr-xr-x 4 root root    4
-rw-r--r-- 1 root root 1017
-rw-r--r-- 1 root root    1
-rw-r--r-- 1 root root
drwxr-xr-x 2 root root    4
-rw-r--r-- 1 root root
```

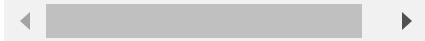
```
!pip install --upgrade cython
```

⇒ Requirement already satisfi



```
%cd /content/vits/monotonic_ali
```

⇒ /content/vits/monotonic_ali



```
!cythonize -i core.pyx
```

```
%cd /content/vits
```

⇒ /content/vits

```
!python train.py -c configs/ljs_b
```

⇒

```

DEBUG:numba.core.byteflow:
DEBUG:numba.core.byteflow:
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DEBUG:numba.core.byteflow:
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```

```

Traceback (most recent c
  File "/content/vits/tr
    from models import (
  File "/content/vits/mo
    import monotonic_alig
  File "/content/vits/mo
    from .monotonic_alig
ModuleNotFoundError: No

```

```
!ls /content/vits/monotonic_alig
```

```
➦ build core.c core.cpython
```

```
%cd /content/vits/monotonic_alig
```

```
➦ /content/vits/monotonic_alig
```

```
!cythonize -i core.pyx
```

```
!ls /content/vits/monotonic_ali
```

```
⇒ build core.c core.cpython
```



```
%cd /content/vits
```

```
⇒ /content/vits
```

```
!python train.py -c configs/ljs_b
```

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⇒
```



```

$26binary_subscr.12 = $32return_value.15
$28compare_op.13 = $32return_value.15
$30binary_and.14 = $32return_value.15
$32return_value.15 =
return $32return_value.15

```

```

Traceback (most recent call last):
  File "/content/vits/train.py", line 10, in <module>
    from models import (
  File "/content/vits/models.py", line 10, in <module>
    import monotonic_align
  File "/content/vits/monotonic_align.py", line 10, in <module>
    from .monotonic_align import (
ModuleNotFoundError: No module named 'monotonic_align'

```

```
%cd /content/vits/monotonic_align
```

```
→ /content/vits/monotonic_align
```

```
◀ ▶
```

```
!cythonize -i core.pyx
```

```
%cd /content/vits
```

```
→ /content/vits
```

```
!python train.py -c configs/ljs_t
```

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```

DEBUG:numba.core.byteflow:
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    $26binary_subscr.12
    $28compare_op.13 = $
    $30binary_and.14 = $
    $32return_value.15 =
    return $32return_val

Traceback (most recent c
File "/content/vits/tr
main()
File "/content/vits/tr
assert torch.cuda.is
AssertionError: CPU tra

```

```

import torch
print("GPU is available:", torc

```

GPU is available: False

```

import torch
print("GPU is available:", torc

```

GPU is available: True

```
%cd /content/vits
```

→ [Errno 2] No such file or d
/content



%pwd

→ '/content'

%cd vits

→ [Errno 2] No such file or d
/content



!git clone https://github.com/j

→ Cloning into 'vits'...
remote: Enumerating objects
remote: Total 81 (delta 0),
Receiving objects: 100% (81
Resolving deltas: 100% (22/



%cd vits

→ /content/vits

from google.colab import drive
drive.mount('/content/drive')

→ Drive already mounted at /c



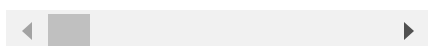
!pip install -r requirements.txt

→ Collecting Cython==0.29.21
Using cached Cython-0.29.
Collecting librosa==0.8.0 (
Using cached librosa-0.8.
Preparing metadata (setup
Collecting matplotlib==3.3.
Using cached matplotlib-3
Preparing metadata (setup
Collecting numpy==1.18.5 (f
Using cached numpy-1.18.5


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```

```
install torch==1.7.1+cu101 -f http
```

➞ Looking in links: <https://d>
 ERROR: Could not find a ver
 ERROR: No matching distribu



```
!pip install torch==2.0.1+cu118 -
```

```
... Looking in links: https://d  

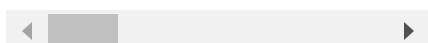
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Collecting lit (from triton
  Downloading lit-18.1.8-py
Requirement already satisfi
Requirement already satisfi
Downloading triton-2.0.0-1-
```

```
Downloading lit-18.1.8-py3-
```

```
Installing collected packag
  Attempting uninstall: tor
    Found existing installa
  Uninstalling torch-2.5.
    Successfully uninstal
```



Double-click (or enter) to edit