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import os
import pandas as pd
from pydub import AudioSegment
from gtts import gTTS

# pip
install pyaudio
# pip install pydub
# pip install pandas
# pip install gTTS

def
textToSpeech(text, filename):
    mytext = str(text)
    language = 'hi'
    myobj =
gTTS(text=mytext, lang=language, slow=False)
    myobj.save(filename)

# This function
returns pydubs audio segment
def mergeAudios(audios):
    combined = AudioSegment.empty()

    for audio in audios:
        combined += AudioSegment.from_mp3(audio)
    return
combined

def generateSkeleton():
    audio = AudioSegment.from_mp3('railway.mp3')

    #
1 - Generate kripya dheyan dijiye
    start = 88000
    finish = 90200
    audioProcessed =
audio[start:finish]
    audioProcessed.export("1_hindi.mp3",
format="mp3")

    # 2 is from-city

    # 3 - Generate se chalkar
    start =
91000
    finish = 92200
    audioProcessed = audio[start:finish]

audioProcessed.export("3_hindi.mp3", format="mp3")

    # 4 is
via-city

    # 5 - Generate ke raaste
    start = 94000
    finish = 95000

audioProcessed = audio[start:finish]
    audioProcessed.export("5_hindi.mp3",
format="mp3")

    # 6 is to-city

    # 7 - Generate ko jaane wali gaadi
sakhya
    start = 96000
    finish = 98900
    audioProcessed = audio[start:finish]

audioProcessed.export("7_hindi.mp3", format="mp3")

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        # 8 is train no
and name

        # 9 - Generate kuch hi samay mei platform sankhya
start = 105500

finish = 108200
audioProcessed = audio[start:finish]

audioProcessed.export("9_hindi.mp3", format="mp3")

        # 10 is platform
number

        # 11 - Generate par aa rahi hai
start = 109000
finish = 112250

audioProcessed = audio[start:finish]
audioProcessed.export("11_hindi.mp3",
format="mp3")

def generateAnnouncement(filename):
    df =
pd.read_excel(filename)
    print(df)
    for index, item in df.iterrows():
        # 2 -
Generate from-city
        textToSpeech(item['from'], '2_hindi.mp3')

        # 4 - Generate
via-city
        textToSpeech(item['via'], '4_hindi.mp3')

        # 6 - Generate to-city

        textToSpeech(item['to'], '6_hindi.mp3')

        # 8 - Generate train no and name

        textToSpeech(item['train_no'] + " " + item['train_name'], '8_hindi.mp3')

        # 10 - Generate platform number
        textToSpeech(item['platform'], '10_hindi.mp3')

    audios = [f"{i}4_hindi.mp3" for i in range(1,12)]

    announcement =
mergeAudios(audios)

announcement.export(f"announcement_{item['train_no']}_{index+1}.mp3",
format="mp3")

if __name__ == "__main__":
    print("Generating
Skeleton...")
    generateSkeleton()
    print("Now Generating
Announcement...")
    generateAnnouncement("announce_hindi.xlsx")

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