**STEPS TO RUN THE CODE**

SpeechT5 TTS Model Fine Tuned on Hindi Language

* The fine-tuned text-to-speech model has been trained on the Hindi Language dataset and have been uploaded on HuggingFace.
* In order to run fine-tuned model, the “EVALUATE” part in the code (ipynb file uploaded on GitHub) can be copied and run.
* Steps:

***Process the model:***

model = SpeechT5ForTextToSpeech.from\_pretrained("Niha14/speecht5\_tts\_voxpopuli\_hindi")

***set the dataset:***

example = dataset["test"][304]

speaker\_embeddings = torch.tensor(example["speaker\_embeddings"]).unsqueeze(0)

speaker\_embeddings.shape

***Input text:***

text = "aaj ka dinn bohot acha hai aur bohot baarish ho rahi hai"

***Tokenization:***

tokenizer.decode(tokenizer(text)["input\_ids"])

***Processing the inputs:***

inputs = processor(text=text, return\_tensors="pt")

***process and load the SpeechT5HifiGan Model:***  
from transformers import SpeechT5HifiGan

vocoder = SpeechT5HifiGan.from\_pretrained("microsoft/speecht5\_hifigan")  
with torch.no\_grad():

speech = vocoder(spectrogram)

***Run and get the output:***

from IPython.display import Audio

Audio(speech.numpy(), rate=16000)

* In order to run the code which is uploaded on GitHub:

1. You can easily download the .ipynb file from the Github.
2. After downloaded, run the file till before the “TRAINING” part present in the notebook,
3. After running till “collator” part or before the “training” part, you can easily run the “EVALUATE” part so as to get the output.