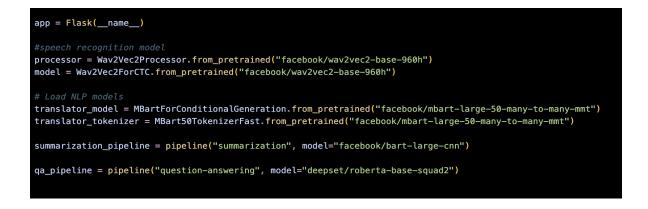
### **Home Assignment 3**

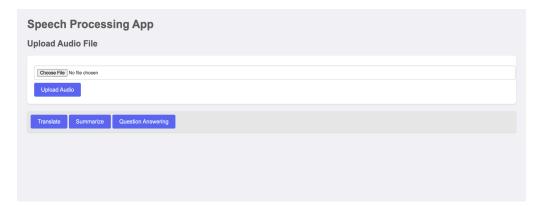
Repo link: https://github.com/sainaveen1117/DL HA3 Speech App run python app.py to run the application.

I have Chosen Option 4 with Application approach

Build the flask application using below models

- facebook/wav2vec2-base-960h for speech recognition
- 2. facebook/mbart-large-50-many-to-many-mmt for translation
- 3. facebook/bart-large-cnn for summarization
- 4. deepset/roberta-base-squad2 for qa tasks





1) Audio Transcription



### 2) Translate (translating to japanese)

## Speech Processing App Upload Audio File Choose File Harvard speech.wav Upload Audio Transcription: THE STALE SMELL OF OLD BEER LINGERS IT TAKES HEAT TO BRING OUT THE ODOUR A COLD DIP RESTORES HEALTH AND ZEST A SALT PICKLE TASTES FINE WITH HAM TAKOZAL PASTORE ARE MY FAVORITE A ZESTFUL FOOD IS THE HOT CROSS BUN Translate Summarize Question Answering Translated Text: 古くからのビールリングスの小さな小売店 それは香りを取り出すのに熱い冷たいディップ 健康を維持し、塩漬けの味を味わう ハム・タコザル店 私のお気に入り 温かい食べ物はホットクロスブーンです

### 3) Summarization

### Upload Audio File Choose File Harvard speech.wav Upload Audio Transcription: THE STALE SMELL OF OLD BEER LINGERS IT TAKES HEAT TO BRING OUT THE ODOUR A COLD DIP RESTORES HEALTH AND ZEST A SALT PICKLE TASTES FINE WITH HAM TAKOZAL PASTORE ARE MY FAVORITE A ZESTFUL FOOD IS THE HOT CROSS BUN Translate Summarize Question Answering Summary: A COLD DIP RESTORES HEALTH AND ZEST A SALT PICKLE TASTES FINE WITH HAM TAKOZAL PASTORE ARE MY FAVORITE A ZESTFUL FOOD IS THE HOT CROSS BUN.

### 4) QA

# Speech Processing App Upload Audio File Choose File Harvard speech.wav Upload Audio Transcription: THE STALE SMELL OF OLD BEER LINGERS IT TAKES HEAT TO BRING OUT THE ODOUR A COLD DIP RESTORES HEALTH AND ZEST A SALT PICKLE TASTES FINE WITH HAM TAKOZAL PASTORE ARE MY FAVORITE A ZESTFUL FOOD IS THE HOT CROSS BUN Translate Summarize Question Answering what tastes fine with ham? Get Answer Answer: SALT PICKLE