**Real Time speech to text**

We use python pyaudio api and deep speech models to perform real time speech to text process.

The Python version uses **3.8.5** and uses any Python **3+** version.

**Project Structure:**

**|--models**

**|--deepspeech-0.9.3-models.pbmm**

**|--deepspeech-0.9.3-models.scorer**

**|--deepspeechAPI.py**

**|--live\_audio\_stream.py**

* **models** folder contain 2 deep speech models .
* **deepspeechAPI.py** contains creating the model object and adding the external scorer.
* **Live\_audio\_stream.py** contains live audio capture and conversion into text.

**To run the project:**

To run the project just call the file **live\_audio\_stream.py**

**$ python3 live\_audio\_stream.py**

**Requirements**:

pip install deepspeech==0.8.2

pip install numpy==1.20.2

pip install PyAudio== 0.2.11

pip install wheel==0.36.2

**Link referenced:**

[**https://github.com/mozilla/DeepSpeech/releases/tag/v0.9.3**](https://github.com/mozilla/DeepSpeech/releases/tag/v0.9.3)

**https://medium.com/slanglabs/how-to-build-python-transcriber-using-mozilla-deepspeech-5485b8d234cf**