**DeepSpeech Set-up**

**Requirments –**

* Python 3.6
* Linux OR Mac

**Step-1: Install deepspeech**

pip3 install deepspeech - it should install latest deepspeech version (0.5.1).

**verify the installation** - deepspeech --version

**Step-2: Download pretrained model.**

Note: We should install pretrained model compatible with deepspeech version, mostly of the same version as deepspeech.

wget https://github.com/mozilla/DeepSpeech/releases/download/v0.5.1/deepspeech-0.5.1-models.tar.gz

tar xvfz deepspeech-0.5.1-models.tar.gz

it will download and extract folder of appx 1.6gb

let’s say model is downloaded in models folder.

models/

models/lm.binary

models/output\_graph.pbmm

models/output\_graph.pb

models/output\_graph.tflite

models/trie

models/alphabet.txt

**Step-3: Verify if deepspeech engine is working.**

Let’s verify if deepspeech engine is working by converting an audio file into text.

Note: Currently, only 16-bit, 16 kHz, mono-channel WAVE audio files are supported.

deepspeech --model models/output\_graph.pbmm --alphabet models/alphabet.txt --lm models/lm.binary --trie models/trie --audio my\_audio\_file.wav.

Above command should print the text inside audio file – my\_audio\_file.wav.

**Step-4: Using deepspeech with NodeJs.**

1. Install latest version of NodeJS – 10.16.0
2. Clone repository from - git clone <https://github.com/teamthesol/node-DeepSpeech.git>
3. Install the node modules - npm i
4. Update the modelsPath in – dsFile.js and dsStream.js.
5. Update the audio file location in file-demo.js and run node file-demo.js. This print the text inside the audio file in console.
   1. If you get error related to SOX run below command- sudo apt-get install sox and then run the file again.
6. Follow the flow from streaming-demo.js, for audio streaming from microphone. (WIP)