**First Time Installation:**

Before continuing, ensure python and pip are installed on your machine.

1) Install python’s virtual environment tool. This is so you can have an isolated environment and packages specifically for this project. In the command line, install virtualenv. Run the command **“pip install virtualenv”.** If you do not have pip installed, install pip. For more info: <https://virtualenv.pypa.io/en/latest/>

2) Clone or download the master branch of the repo: <https://github.com/naeem1997/SpeakerRecognition/tree/master>

If you download, it should appear as “SpeakerRecognition-master.zip”

3) Unzip this file once downloaded.

4) Download the Config File from: <https://drive.google.com/file/d/1m5mD5EKL7CbA_9jR4etfFlZrrzpv_CCt/view?usp=sharing>

and add it to the “SpeakerRecognitionAWS” directory within the file you just downloaded.

By default, this file contains all the configuration information about EC2, RDS, and S3 from Saman’s account.

\*\* Not required to run the application, but for future use please change the config file to use your own AWS resources.

5) Using command line, cd into the “SpeakerRecognition-master” directory.

6) Run the command **“virtualenv venv”** to create a new virtual environment called “venv”

7) If on Linux: Run the command **“source venv/bin/activate“** to activate the new directory.

If on Windows: Run the command **“venv\Scripts\activate.bat”** to activate the new directory.

8) Run the command **“cd SpeakerRecognitionAWS”**

9) Run the command **“pip install -r requirements.txt”** This will download and install all the requirements needed to run the project.

10) Once completed, run the command **“python3 app.py”.**  You should see

\* Debug mode: on

 \* Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)

 \* Restarting with stat

 \* Debugger is active!

This means the flask application is up and running. You can now access the web app on your browser by going to <http://0.0.0.0:5000/>

If that address does not work, then try the loopback IP: <http://127.0.0.1:5000/>

**Done**

**All subsequent runs:**

After you have completed the above steps and closed the terminal, you can follow these steps to get the application back up and running. The main difference is that you will not need to download and create a virtual environment or install packages. You will just need to activate the virtual environment and run application.

1) Run the command **“cd /pathToProject/SpeakerRecognition-master”**

2) Run the command **“source venv/bin/activate”** to reactivate your virtual environment

3) Run the command **“cd SpeakerRecognitionAWS”**

4) Run the command **“python3 app.py”**

You should see

\* Debug mode: on

 \* Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)

 \* Restarting with stat

 \* Debugger is active!

This means the flask application is up and running. You can now access the web app on your browser by going to <http://0.0.0.0:5000/>

If that address does not work, then try the loopback IP: <http://127.0.0.1:5000/>

**Done**