**Speech Emotion Recognition Machine Learning Project :**

**Abstract :**

**Communication is the key to express one’s thoughts and ideas clearly. Amongst all forms of communication, speech is the most preferred and powerful form of communications in human. The era of the Internet of Things (IoT) is rapidly advancing in bringing more intelligent systems available for everyday use. Intelligent applications are interactive and**

**require minimum user effort to function, and mostly function on voice-based input. This creates the necessity for these computer applications to completely comprehend human speech. The performance of the emotion detection system can greatly influence the overall performance of the IoT application in many ways and can provide many advantages over the functionalities of these applications. This research presents a speech emotion detection system with improvements over an existing system in terms of data, feature selection, and methodology that aims at classifying speech percepts based on emotions, more accurately.**

**This is one of the machine learning projects that uses audio data. It takes a part of speech as input and then determines in what emotions the speaker is speaking.You can identify different emotions like happy, sad, surprised, angry, etc.**

**We define speech emotion recognition (SER) systems as a collection of methodologies that process and classify speech signals to detect the embedded emotions. SER is not a new field, it has been around for over two decades.This project could be helpful for identifying customer emotions during the call with the call centre.**