Emotion Detection from Voice

Extraction of emotion from voice is a challenging work in machine learning. My project is not based on language but instead, it detects emotion being based on the MFCC features mainly

**Scope:** Takes voice of user and gives emotion as output. (Emotion classes are Sad, Happy Angry and Fear)

**Objective:** Emotion Detection without language barrier

**Technical Aspects:**

**Framework:** Django (Web designing)

**Language:** Python, Bootstrap

**Model:** K- Nearest Neighbor (KNN)

KNN has given best accuracy so far. Other ANN, SVM, decision tree models has also been used for comparison.

**Library:** Librosa (to extract features from voice), pyAudio (to take user voice).

**Future Scope:** Emotion is natural phenomenon which can be used in different aspects of day to day life.

* Reduce user frustration.
* Comfortable communication as per user emotion (chatbot).
* Customer services
* Call-centers
* Intelligent auto-mobile system