**Velagapudi Ramakrishna Siddhartha Engineering CollegeDepartment of Information Technology**

Class: 3rdYear Section: B Year: 2020-2021

**SPEECH EMOTION RECOGNITION**

**Motivation:**The idea behind creating this project was to build a machine learning model that could detect emotions from the speech we have with each other all the time. Nowadays personalization is something that is needed in all the things we experience every day.

**Problem Description:**Detecting emotions is one of the most important marketing strategies in today’s world. You could personalize different things for an individual specifically to suit their interest. For this reason, we decided to do a project where we could detect a person’s emotions just by their voice which will let us manage many AI related applications.

**Social Benefits:**This can be used by multiple industries to offer different services like marketing company suggesting you to buy products based on your emotions, automotive industry can detect the person’s emotions and adjust the speed of autonomous cars as required to avoid any collisions etc.

**Innovation and Uniqueness:**.This Project thrives on wellbeing of customers and providing them with utmost care and calmness. Our vision is providing a healthy customer service**.**

Some examples could be including call centres to play music when one is angry on the call. Another could be a smart car slowing down when one is angry or fearful. As a result this type of application has much potential in the world that would benefit companies and also even safety to consumers.

**Feasible Solution:**Tohave an emotion detector that will gauge your emotions and in the future recommend you different things based on your mood. These models will distinguishing between a males and females voice.And could build a sequence to sequence model to generate voice based on different emotions. E.g. A happy voice, a surprised one etc.

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