

Emotion Recognition Application

Graduation Project by:

Eren Ali Aslangiray, Mehmet Enis İşgören, Meryem Şahin, Sümeyye Sena Eminmollaoğlu



Introduction

Acoustically expressed emotions can make the communication more efficient between humans and computers. We think that understanding emotions of humans is the next evolutionary step of interaction of one and other. In this project, our team used state-of-the-art models and techniques to analyze human voice signals to extract the features that computers need for understanding the emotions, as we humans do.

Pre-Guided User Data

We prepared set of questions with psychology professors in Şehir University to understand and build the users base case of initial User State Graph. The questions asked user's gender, preferences, weather likes and dislikes, and so on..

Custom Voting

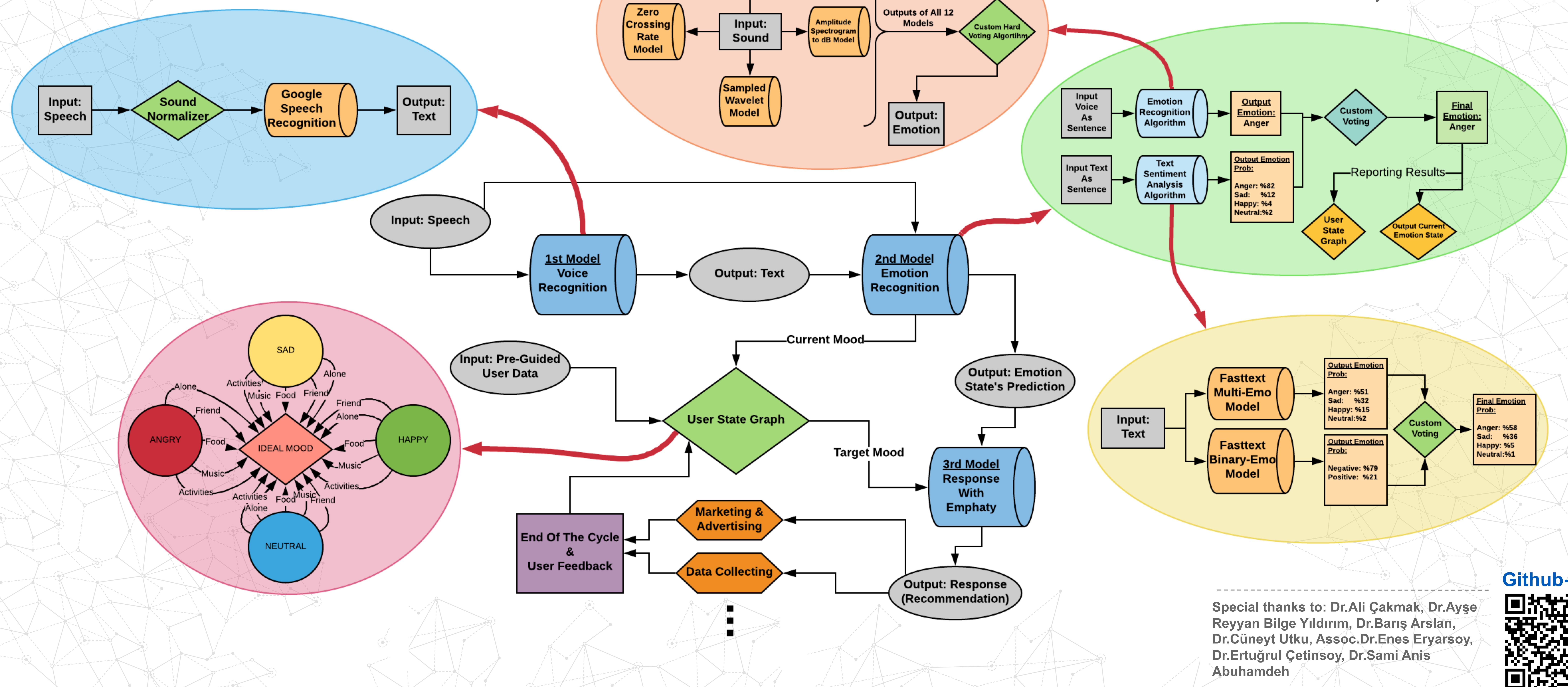
We implemented our own smart voting algorithm so that we carefully ensembled two results that will come out from different emotion recognition models and methods.

The Power of Understanding

At the end of each iteration, we have a chance to make a recommendation to user. There is a big chance for market to put intelligent ads to this system to target people's moods. Also, another point is having the power of collecting the human behavior information which is the most valuable data nowadays.

Conclusion

In the end we have a machine that understands emotions of the person who speaks to it, like humans do. When we thought about solving the problem of being understood new problems arise. How realistic will it be? What will be the next step of personal assistant evolution? Hope humanity will find out all the answers.



Special thanks to: Dr.Ali Çakmak, Dr.Ayşe Reyyan Bilge Yıldırım, Dr.Başar Arslan, Dr.Cüneyt Utku, Assoc.Dr.Enes Eryarsoy, Dr.Ertuğrul Çetinsoy, Dr.Sami Anis Abuhamdeh



Github-Link