

ELIZA: Smart Monitoring and Reporting Toast Master System

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Abstract

Public speaking is the most common form of fear, and everyone feels uneasy with it. Fear of speaking in public is commonly called "glossophobia," where people are discouraged from speaking in front of people due to embarrassment and rejection. Public speaking anxiety (PSA) is one of the most universal subtypes of anxiety where people fear, lose their confidence, and become uncomfortable physically and mentally. But public speaking is considered important in the educational sector and workplaces, where people get higher opportunities. Therefore, clubs like Toastmasters help people overcome their fear of public speaking and improve their confidence. We are launching the idea of a Smart Monitoring and Reporting Toastmasters System for people to improve their public speaking so they do not need a supervisor or mentor to train them. This smart monitoring system recognizes the candidate through image processing and deep learning. Moreover, this will analyse some features from the candidates speeches, such as facial emotion recognition, speech recognition, hand and body gesture recognition, and the candidates attire and appearance separately. This system will identify their mistakes and flaws and provide overall feedback to the users on the speech provided by the candidate. By implementing this web application, users can train themselves without a supervisor, and they can improve themselves and gain the confidence to participate in a Toastmasters competition as perfect candidates.

Keywords

Toastmasters, Glossophobia, Speech Recognition, Facial Emotion Recognition, Body Gesture Recognition, Appearance Analysis.