

# Interviews Simplified

Group ID - 1

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## Problem Statement/Motivation

The COVID-19 pandemic has changed the way we behave, eat and work. COVID-19 may have slowed the things world over, but that has not deterred companies from looking for new hires. Most companies have moved to online hiring completely to keep their employees and prospective candidates safe from getting infected. An online job interview is an excellent move to keep things moving while avoiding the threat of COVID-19. While online interviews are not that different from the traditional ones, there are few changes to which we need to adapt to revamp our chances of selection.

As opposed to the pre-COVID situation, we cannot have Pre-Placement Training, mock interviews with experts or approach our seniors for our personality analysis, leaving no scope for improvement.

## Proposed Solution

To tackle this problem, we wish to create a progressive web-app that provides a single platform for:

- Adding or viewing interview experiences of various people at different companies
- List of frequently asked questions company-wise
- Mock interviews to improve your soft skill, facial expressions, body language and choice of words using a video analysis tool

# Features

## Behavioral Video Analysis

One of the deciding factors among two equally competent candidates is Soft Skills. Soft skills are character traits and interpersonal skills that characterize a person's relationships with other people. In the workplace, soft skills are considered to be a complement to hard skills, which refer to a person's knowledge and occupational skills. In an interview these skills are assessed through behavioral questions and analysis is done through the facial expressions, and confidence levels demonstrated by candidates. We in this feature wish to give the emotion and confidence level feedback to a candidate so that he can improve upon his skills. The report generated by this feature would include:

1. **Speaking rate:** Tells you at what speed(wpm) you were speaking and whether your speaking-rate was correct, or you should increase or decrease your speed.
2. **Most used words:** Shows a bar-chart representing the words used most by you in your speech.
3. **Emotional analysis:** Shows a pie chart showing the number of emotions (happy, sad, joy, fear, disgust, etc.) in your speech.
4. **Word Cloud:** Creates a word-cloud of most-important keywords and concepts of your speech
5. **Facial analysis:** Gives the list of emotions and confidence level seen on your face while giving an interview.

## Interface to Add Interview Experiences

While preparing for your first interview for a specific role or in general, a candidate is always confused about the kind of questions that could be asked in the interview and looks for previous company interview experiences. Though many sites exist that already have interview experience sharing portal, they support entering the information in the form of a blog which can be tedious and defers certain candidates from sharing their experience. So, we wish to implement a form-based view for sharing/writing experiences to make the process more convenient and easier to use.

## Question Bank for Coding Questions

With this feature, we wish to provide a segregated question bank for different companies by scraping various websites and also from the input of other candidates.

## Chat-Bot

To make our web-app more accessible we wish to implement a chat-bot feature which makes the above features accessible through normal chat making it a more user-friendly experience.

## Technology Stack

1. **Backend:** Django/Flask
2. **Frontend:** HTML, CSS, JavaScript
3. **ML/AI implementation:** TensorFlow 2.0