**Using NLP and speech to simplify class lectures during online learning**

**Workflow:**

1. Importing the Packages
2. Flask Framework – Localhost with sqlite3 for signup and sign in
3. User uploads the audio data for analysis
4. audio file is processed and the speech is recognized
5. Recognized speech is processed and convert the speech to text
6. the text is analysis with NLP
7. Based on NLP the extracted text and is analysis is displayed as outcome
8. Using Google NLP API we displayed the recommendation of meaning of text
9. Based on YouTube API we recommended the YouTube link for recognized text
10. Final Outcome is displayed.