How to run the Dashboard

1. Install all the packages (all are implemented in the cells of each sections):

Package Installations	Description
ffmpeg	Tool/library for handling audio and video operations.
openai-whisper	Automatic speech recognition (ASR) model/library from OpenAI.
Contractions	Expands contracted words
gradio	Framework for building simple web interfaces such as dashboard

2. The following steps mentioning all sections which have done in order to run the dashboard:

Viewing the video files: Run each cell.

    a. Copy videos from the shared S3 bucket to personal S3 bucket.

Transcribe the videos: Install ffmpeg and openai-whisper (mentioned in cells) and run each cell.

    b. Download all the videos to sagemaker in order to transcribe videos.

    c. **Audio Conversion**: Convert all the videos to audio and save them to sagemaker.

    d. **Video File Name**: Fetch all the original video titles from the S3 bucket

    e. **Transcription**: Use the saved audios from the sagemaker to convert them into text, and save them in a csv file.

    f. **Video Links**: Generate the links of the videos and add them to the generated csv.

Normalized the transcriptions: Install contraction (mentioned in a cell) and run each cell.

    g. Use the transcriptions from the generated csv file to initialize the normalized text and save it in a csv file.

Extracting Key phrases and topics: Run each cell.

    h. Use the normalized transcriptions to extract the keyphrases, topics and topic assignment.

Dashboard:

    i. Install gradio (mentioned in a cell)

    j. Run each cell to have a dashboard and search queries for videos