VOIDS

Visual Object Identification, Detection, and Speaker tracking.

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VOIDS: Visual Object Identification, Detection, and Speaker tracking.

- -> Majority of the interviews are being conducted over a virtual medium and in my personal experience 3 in every 10 interview has possible chance of attempt at fraud or straight up fraud.
- -> The most common method to cheat is to have a third person to tag along in the process.
- -> Successfully flagging the possible attempts at fraud becomes important in preserving the sanctity and integrity of the hiring process.

Overview

VOIDS uses 4 models to provide and intermediate representation of the chunk of video from the whole process.

- 1) Object Detection and Tracking
- 2) Object Identification
- 3) Audio Transcribing
- 4) Diarization
- -> It maintains a global lookup table to keep track of unique and repeated entities of audio and object detected in the video stream
- -> It uses purely heuristics to infer if there is an attempt and flag the said chunks for further analysis
- -> The whole process is a Zero-Shot analysis process.

Workflow

- -> VOIDS works in the backend after the video interview has been completed. This is an automated tool to provide you with insights that you might have skipped during the interview.
- -> To make it compute efficient it works on randomize instances of the full video instead of the full-video
- -> It provides you with flagged instances for further analysis

Live Demo on a previously recorded interview and usecases

-> Demo

-> Use cases in bot based interview

Future Improvement

- -> Integration with Casual and Correlational model to provide detail visual analysis in form of video output
- -> Safeguarding against audio based prompt injection attempts.
- -> Flagging and classifying the individual channel for detailed analysis
- -> Real-Time??