

Facial Expression Recognition

Utilizing Amazon Rekognition to Improve Online Learning

Problem

Since converting to a virtual environment, many students choose to not turn cameras on, making it harder for professors to read non-verbal student feedback, inhibiting their ability to teach effectively. But having cameras on leads to severe losses in video quality.

Approach

- Utilize Amazon Rekognition and cameras to interpret emotion and give professors live emotional feedback on their class participants.
- Does not store video, only marks certain emotions shown, such as happy, confused, or actively listening.

Relevance and Impact

- Allows professors to visualize the classroom setting as if they were teaching in person.
- By adding an emotional layer, professors will feel connected to their audience and feel more engaged in lectures.

