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Machine Learning
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Image Detection for Non-Verbal Behaviors

For Machine Learning, we aim to create an image detection software that will detect and categorize non-verbal behaviors. We plan on working on this project in various steps; starting with detecting a person's emotion through facial expressions in portrait photos. Our data set for these steps will be pictures found online. Our next step will be to tell a person's emotion through their body language, so the photos for this step would have to capture the full body of the subject. The next step is a potential step and would be incorporated if we have time; this step would analyze videos of people and detect through full body language and facial expressions how the person is feeling. This project looks at nonverbal cues to tell how a person is feeling which is done by looking at facial expressions and how the person is holding their body (body language). The software will scan the images and then categorize them by giving a score depending on the markers or flags it finds in the photos. That score tells the software what emotion the person is expressing. The user will be able to input a photo and potentially a video that through machine learning will then do as described above.