

**Issue Key:** KAN-3

**Summary:** Implement Sign Language Detection System

**Description:** We need to develop a sign language detection system that can recognize and translate hand signs into text. The system will utilize computer vision and machine learning techniques to identify different signs from images or video frames and output the corresponding text.

**Issue Key:** KAN-2

**Summary:** GPT-Neo

**Description:** GPT-Neo was trained as an autoregressive language model. This means that its core functionality is taking a string of text and predicting the next token. While language models are widely used for tasks other than this, there are a lot of unknowns with this work. GPT-Neo was trained on the Pile, a dataset known to contain profanity, lewd, and otherwise abrasive language. Depending on your usecase GPT-Neo may produce socially unacceptable text. See Sections 5 and 6 of the Pile paper for a more detailed analysis of the biases in the Pile. As with all language models, it is hard to predict in advance how GPT-Neo will respond to particular prompts and offensive content may occur without warning. We recommend having a human curate or filter the outputs before releasing them, both to censor undesirable content and to improve the quality of the results.

**Issue Key:** KAN-1

**Summary:** Acceptance Criteria for Sign Language Detection

**Description:** Acceptance Criteria for Sign Language Detection \* The system accurately detects and translates signs from images with at least 90% accuracy. \* The user interface is intuitive and displays the detected text in real-time or upon image upload. \* The model is trained on a diverse dataset to handle various sign language gestures effectively.