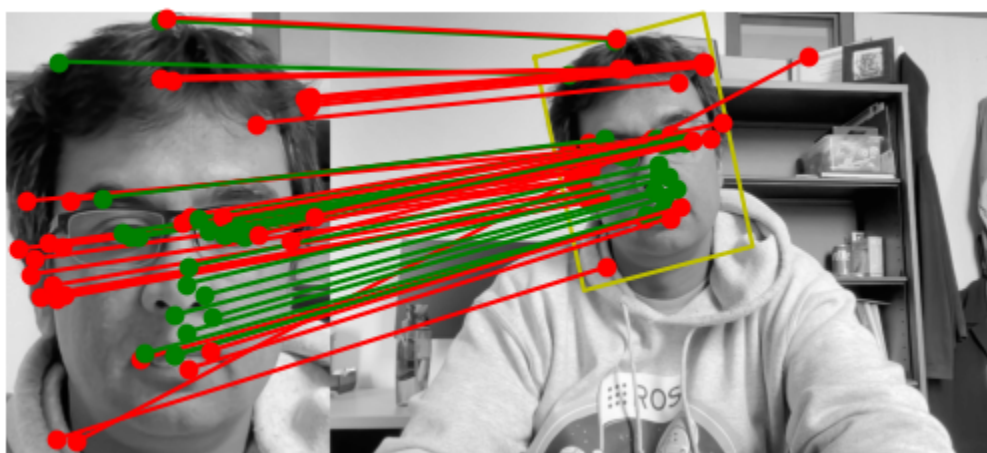




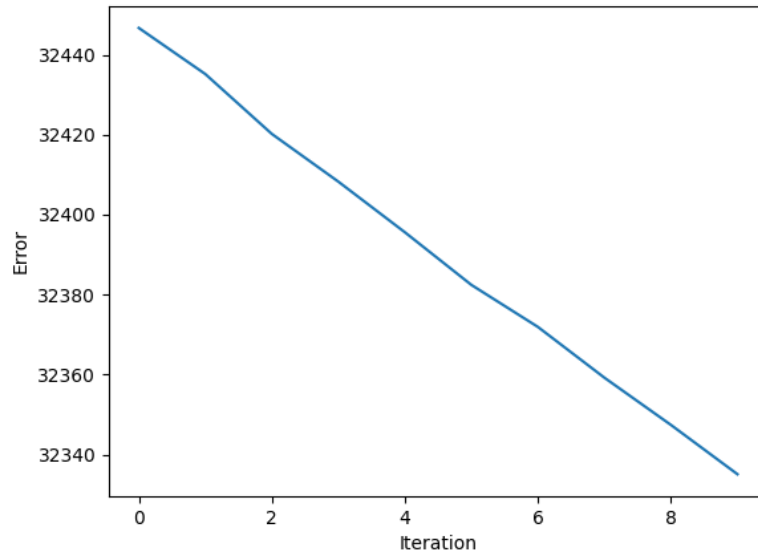
**Figure 1:** Visualization of the output of the `find_match()` function. Uses SIFT and K Nearest Neighbors to match points on the template and target image, each line connects those matched points.



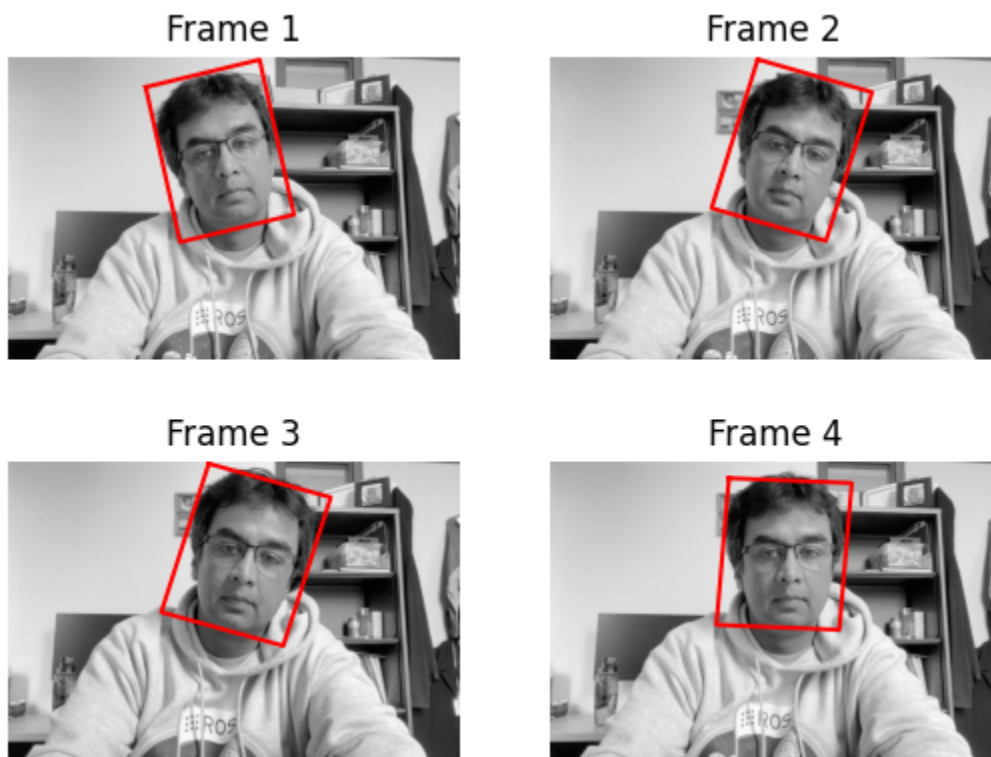
**Figure 2:** Visualization of the output of the `align_image_using_feature()` function. Green lines are inliers, red lines are outliers. The yellow box is the boundary of the template after an affine transformation.



**Figure 3:** Shows in order from left to right: the template image, the warped target image, those 2 images overlaid, and then the error map of that overlay.



**Figure 4:** error map for the `align_image()` function



**Figure 5:** Visualization of the output of the `track_multi_frames()` function. The template is used to track the face over 4 different frames using inverse compositional image alignment.