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Throughout this past week, I worked on further developing my Tkinter GUI layout. The main improvements that I was able to make include, increasing the functionality of the dropdown menu, adding video preview images to the display, and incorporating sliding scales to allow users to define algorithm parameters.

With respect to the dropdown menu, I improved it such that every time you change the video number on the menu, a different image is displayed on the screen. Because Tkinter doesn't support live video feeds, currently, I plan to display videos in separate windows. As a result, to allow the user to preview what video they selected, I will display an image of the first frame in the GUI itself. The dropdown menu functionality that I have created within the GUI replicates this preview feature that I will finalize in the future.

Furthermore, I added sliding scale parameter user inputs which I can get numerical data from. Currently, I have added three inputs: the depth differential, distance differential, and frame rate of the output video. I will continue to add these parameter inputs as I further develop my GUI.

In the coming week, I will work on connecting the GUI to my current backend crash prediction algorithm as well as adding features to it to enhance the user's experience. The following two images of my GUI show how my dropdown menu is linked to the image being displayed.

