Fashion Critique Program

In the code we have integrated a dataset of clothing items via Fashion MINST. Then, the user will be able to upload the full body picture of themselves. Then they will be able to upload multiple pictures of clothing items either in their closet or via online shopping sites. Using tensorflow we will include posenet which will utilize details of the outline and pose of the full body picture. We will then incorporate warping or cutting techniques via the clothing uploaded where we can then place it on the full body image so users can see how the item would look on them and whether to purchase it or not. This can help with determining which size is best to buy.

Furthermore we have integrated the use of panda and opencv to accurately read and analyze the dataset of clothing items. Thus as the picture of the clothing item from the user is uploaded, the computer can recognize what it is I.e if a trousers is a trousers or a hoodie is a hoodie. Moreover, through opencv the code will allow the computer to recognize the color of the clothing uploaded and as we create more code we will create an application that analyzes the length of the clothing items uploaded. These features are necessary so the program can give feedback to the user.

For example, the user will be prompted to enter which event they need this clothing item for, if the event is formal or informal, what the general temperature will be for this event such as summer or winter and if there are any color restrictions. Therefore through the computers deep learning ability to analyze the type of clothing such as trouser compared to a dress, the computer can generate the clothing option uploaded that best suits this event. Moreover, its ability to analyze the length of the clothing item would be beneficial in determining the best outfit for the weather and its ability to recognize color can let you know if the color should not be worn. For example the program will warn that the color may be similar to a bridal dress so it cannot be worn to a wedding.