1: I will be implementing a model that converts images of letters in the ASL alphabet to normal English letters. I'll be using this Kaggle dataset, https://www.kaggle.com/grassknoted/asl-alphabet.

2:

 i. The dataset I'll be working with is very nice and clean, so it shouldn't need a lot of preprocessing. I might convert all the images to greyscale because colour is really unnecessary here.

 ii) I don't know all the different machine learning models yet, but I imagine that a neural net with an input layer, output layer, and one or two hidden layers should be able to handle an image-recognition thing like this.

 iii) If possible, I'd like to write an app or browser-based extension that could translate sign language in real time from a video feed.