Advanced deep learning

The purpose of this exercise was to create a model that recognises human faces. Before proceeding with building the model and training it I had to normalise and reshape our data from the npz file into pictures array, once the data is reshaped I was able to draw one random image by using plt.imshow. Once the data was ready I then proceeded to create a model that has 3 main layers:

1. Convolutional layer
2. Pooling Layer
3. Fully connected layer

Attached you'll find the model architecture which yields an accuracy above 90%. Unfortunately because of work and personal life time constrains I was not able to attempt the other projects I hope this is enough to complete this course.