Shiny Sherly Katuru

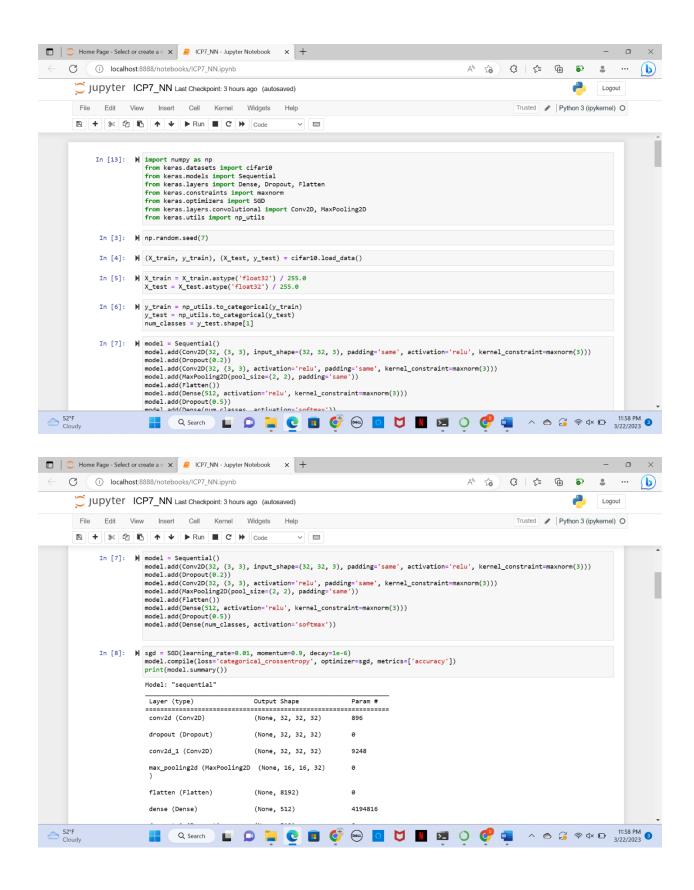
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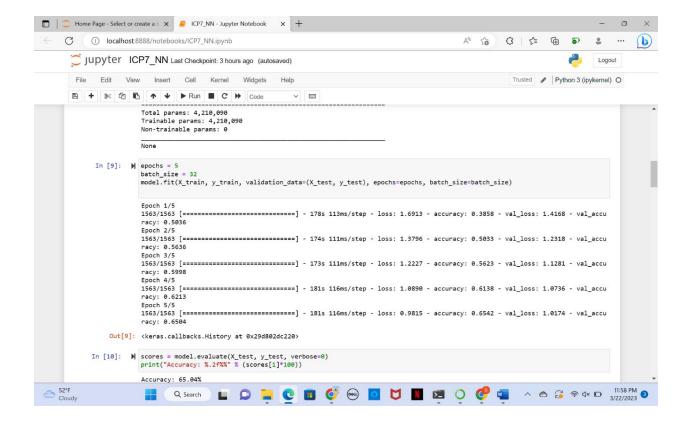
Neural Networks and Deep Learning

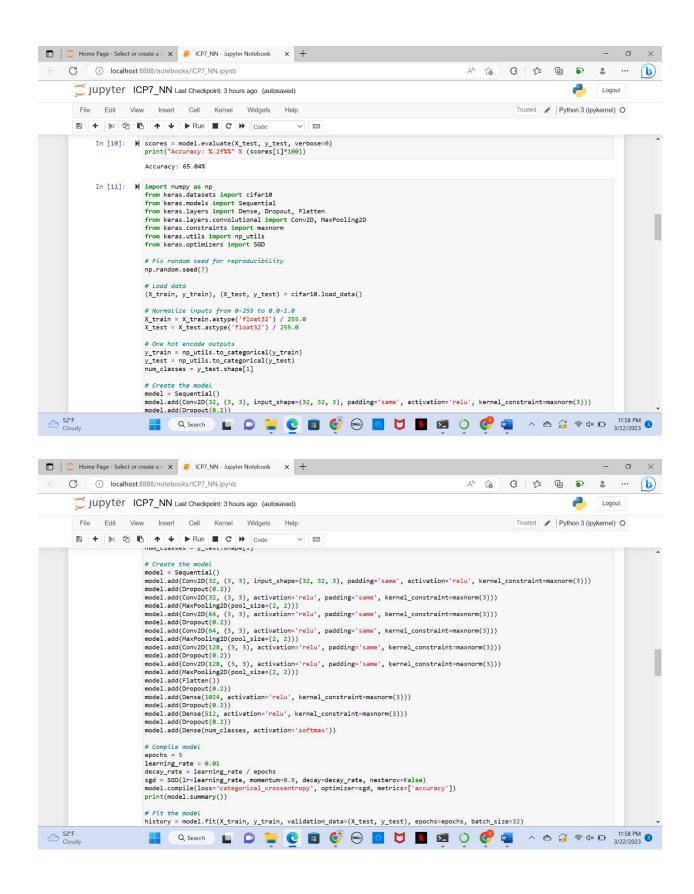
Assignment-7

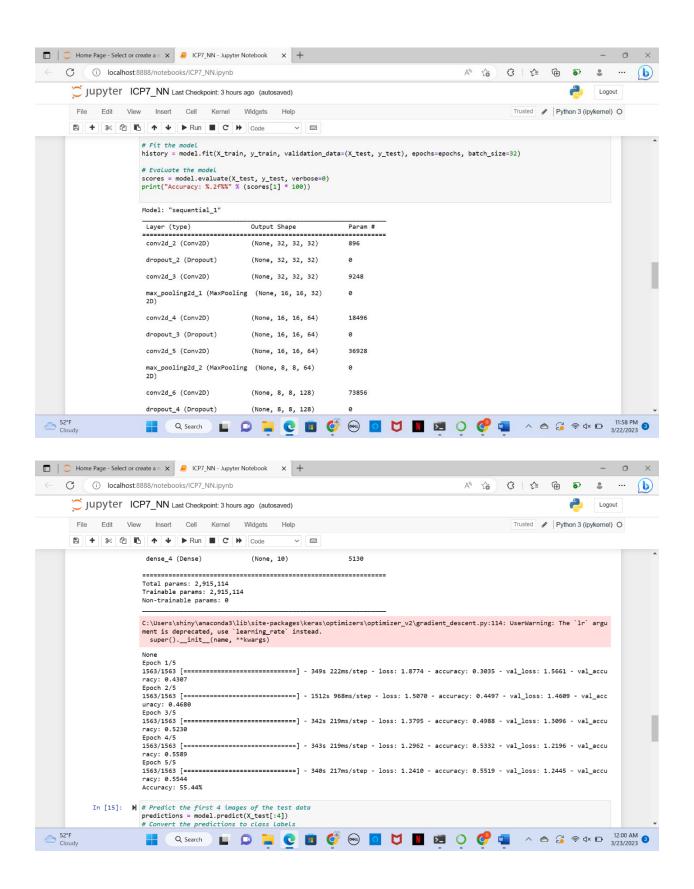
In class programming:

- 1. Follow the instruction below and then report how the performance changed.(apply all at once)
 - Convolutional input layer, 32 feature maps with a size of 3×3 and a rectifier activation function.
 - Dropout layer at 20%.
 - Convolutional layer, 32 feature maps with a size of 3×3 and a rectifier activation function.
 - Max Pool layer with size 2×2.
 - Convolutional layer, 64 feature maps with a size of 3×3 and a rectifier activation function.
 - Dropout layer at 20%.
 - Convolutional layer, 64 feature maps with a size of 3×3 and a rectifier activation function.
 - Max Pool layer with size 2×2.
 - Convolutional layer, 128 feature maps with a size of 3×3 and a rectifier activation function. Dropout layer at 20%.
 - Convolutional layer,128 feature maps with a size of 3×3 and a rectifier activation function.
 - Max Pool layer with size 2×2.
 - Flatten layer.
 - Dropout layer at 20%.
 - Fully connected layer with 1024 units and a rectifier activation function.
 - Dropout layer at 20%.
 - Fully connected layer with 512 units and a rectifier activation function.
 - Dropout layer at 20%.
 - Fully connected output layer with 10 units and a Softmax activation function Did the performance change?

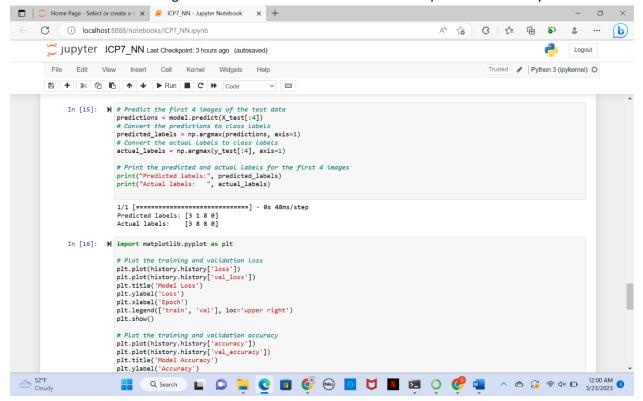








2. Predict the first 4 images of the test data using the above model. Then, compare with the actual label for those 4 images to check whether or not the model has predicted correctly.



3. Visualize Loss and Accuracy using the history object

