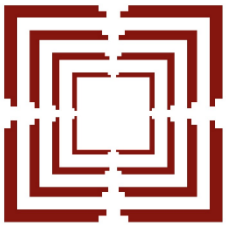

Ahmedabad University

CSE541 Computer Vision

Weekly Project Report

Date: 09-04-2023

Project title: Real-time medical image disease detection using deep learning methods.

Group 8

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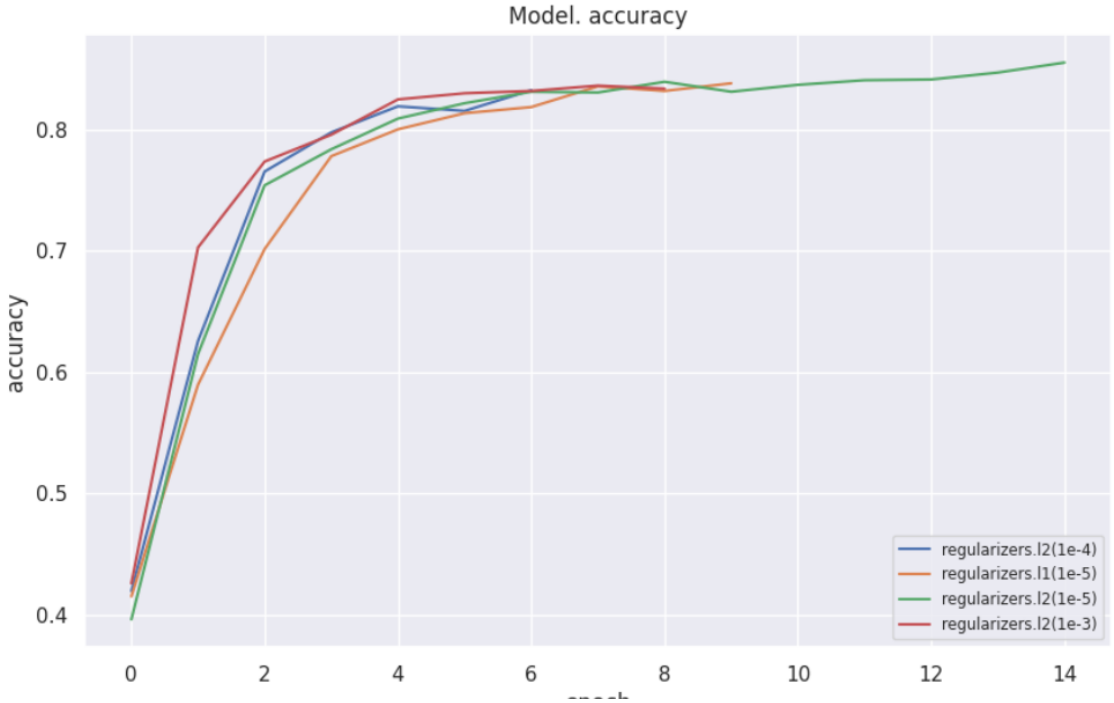
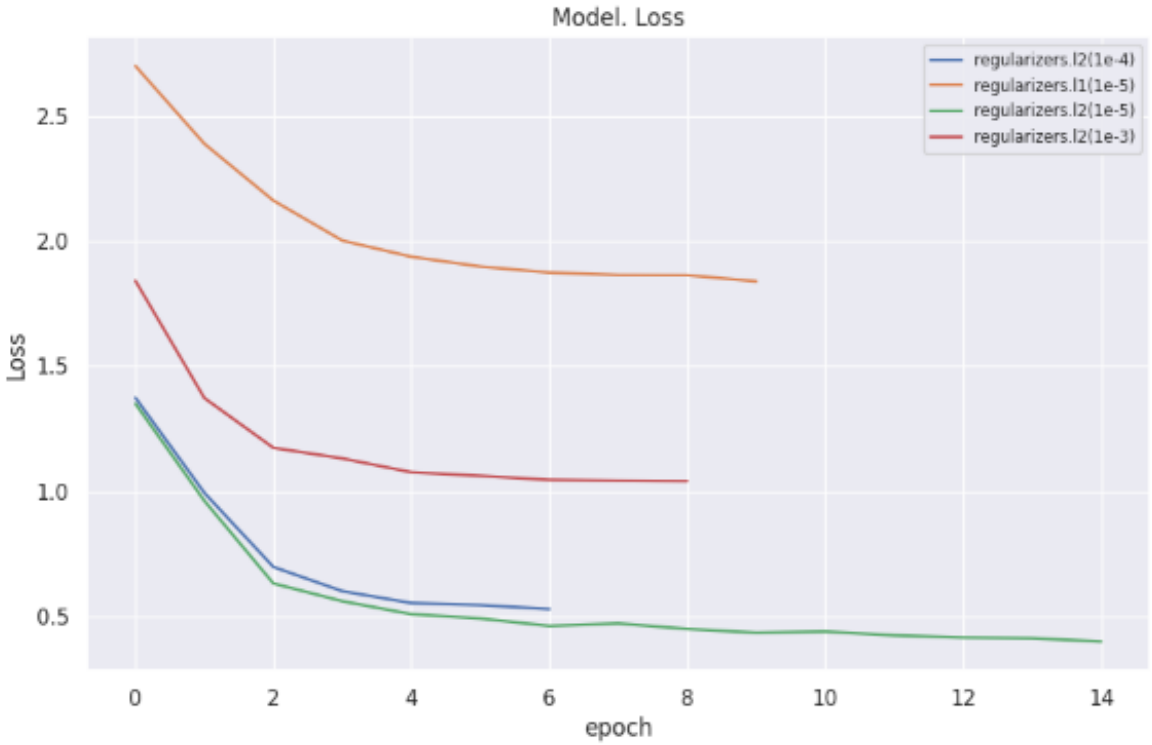
1. **Task performed this week and outcomes of task performed**
    - We implemented the other CNN models VGG and DenseNet and compared the accuracy of the models.
    - First we implemented the VGG net. The test accuracy of VGG model is 0.9288 and test loss is 0.4264.
    - Then we implemented the DenseNet model. The test accuracy of DenseNet is 0.9326 and test loss is 0.7447.
    - The test accuracy of ResNet model was 0.9384 and test loss was 0.2720.
    - The accuracy of VGG and DenseNet is less than the ResNet.
    - Also, the VGG and DenseNet are overfitting the dataset.
    - From this we concluded that the ResNet model is performing good on our dataset.
    - Various regularizers were also compared to decide optimal decision to avoid overfitting.





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2. **Tasks to be performed in the upcoming week**
    - Test other architectures for better accuracy on the labelled image classification.
    - Real time video classification.