

Name: Rahul Aditya

Roll-no.: 18CS30032

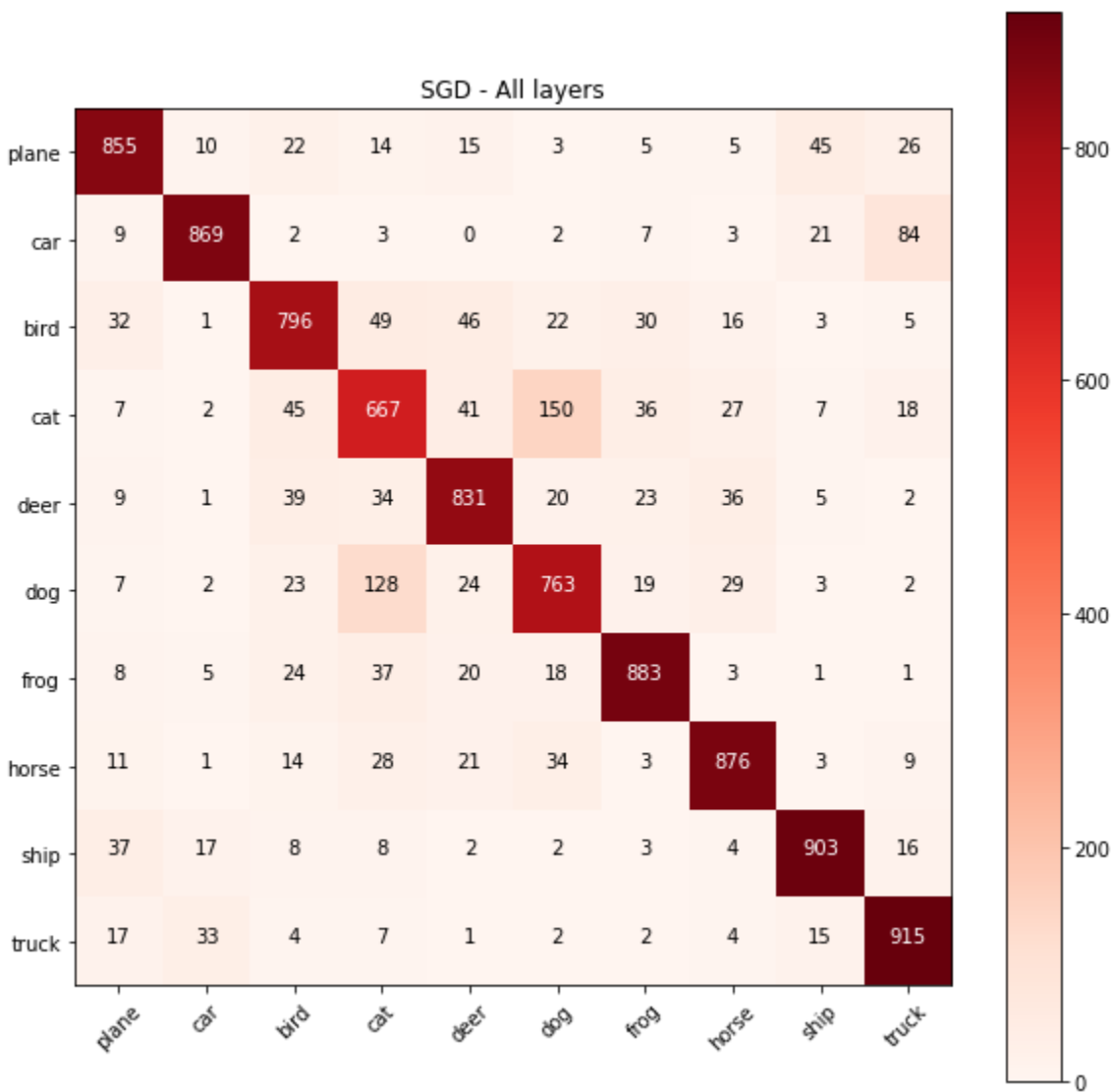
WandB : https://wandb.ai/rahul_aditya/Ass2

Confusion matrices

1. SGD - All layers trained

Best classified class = truck

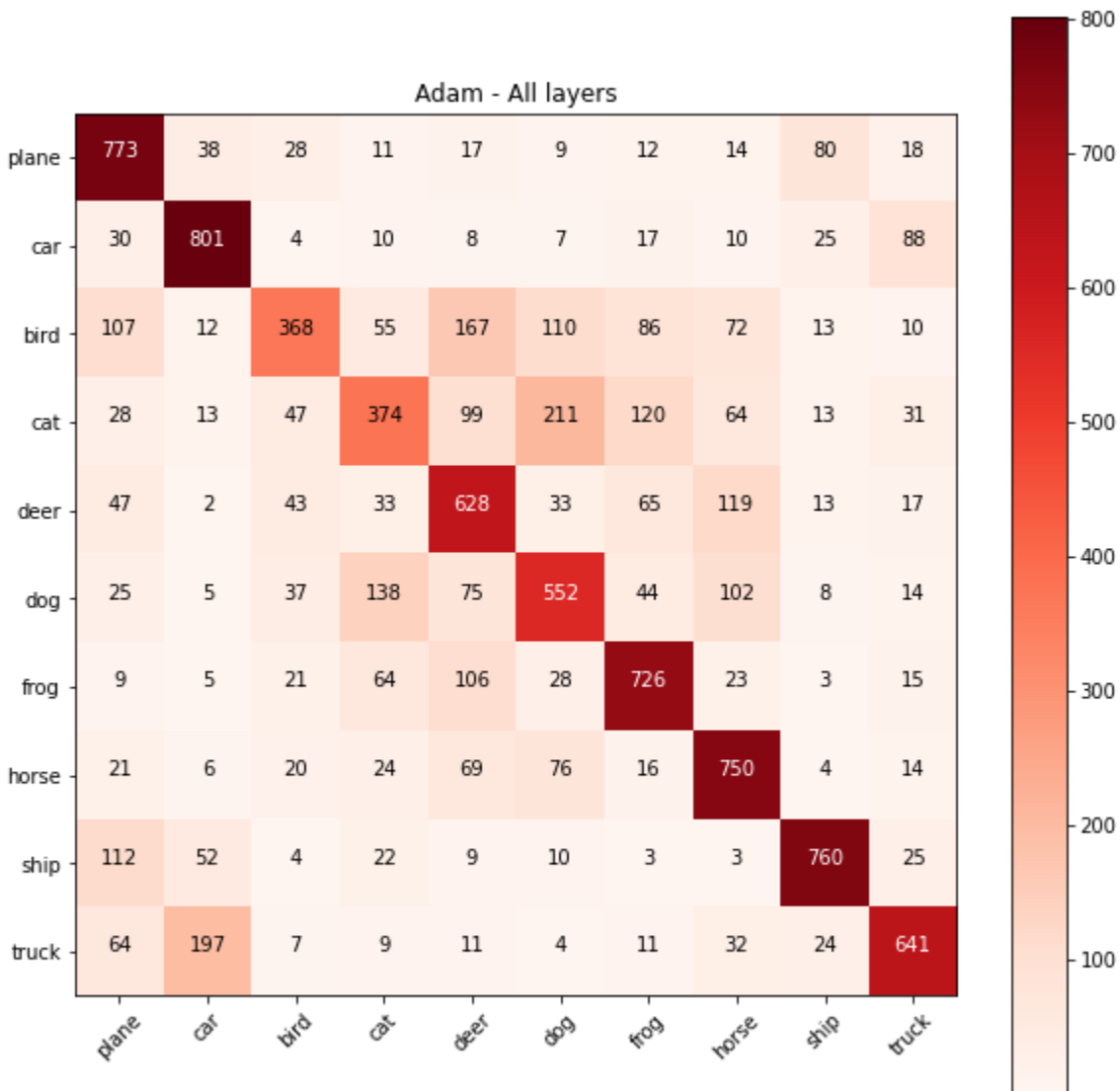
Worst classified class = cat



2. Adam - All layers trained

Best classified class = car

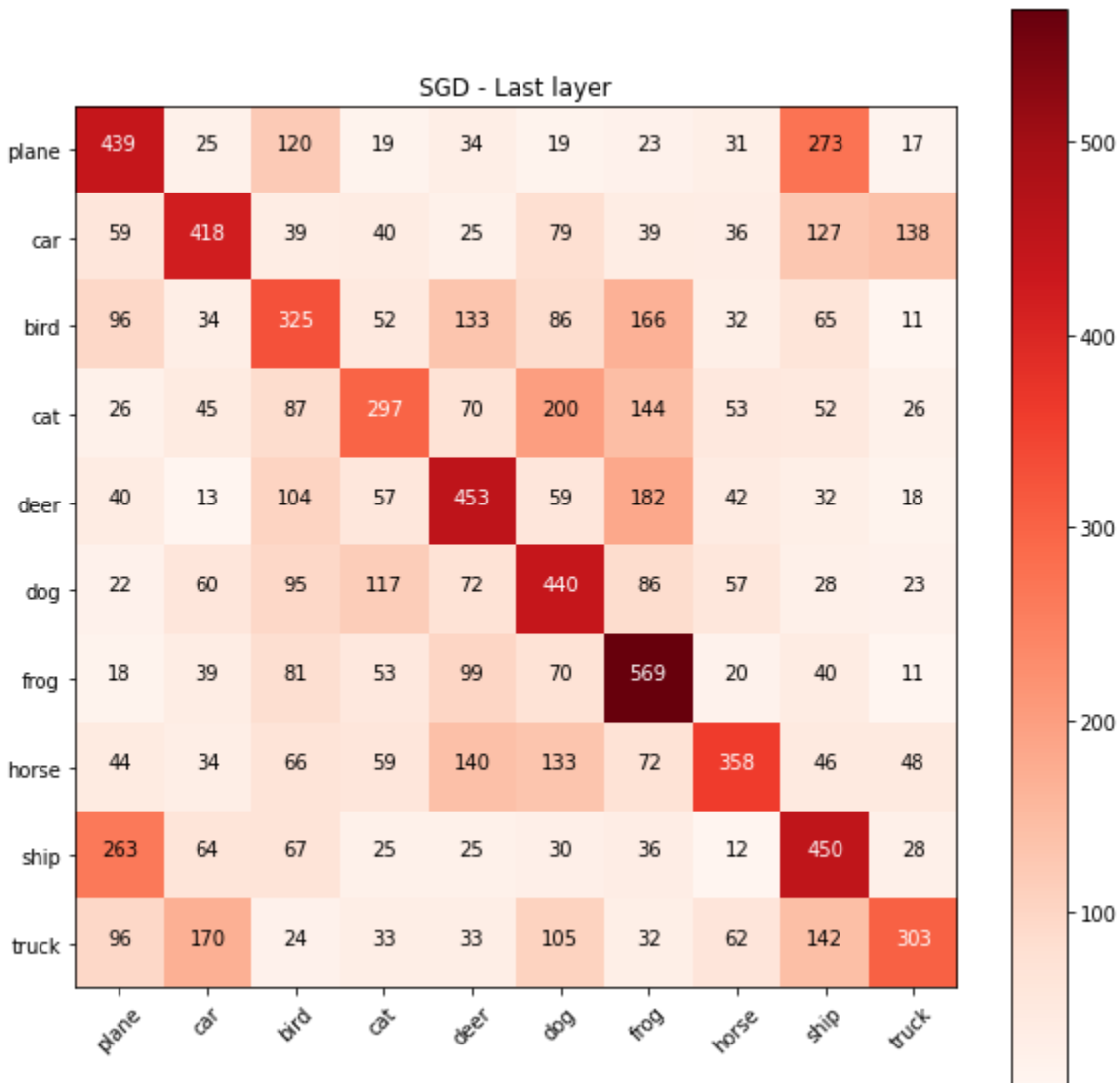
Worst classified class = bird



3. SGD - Last layer trained

Best classified class = frog

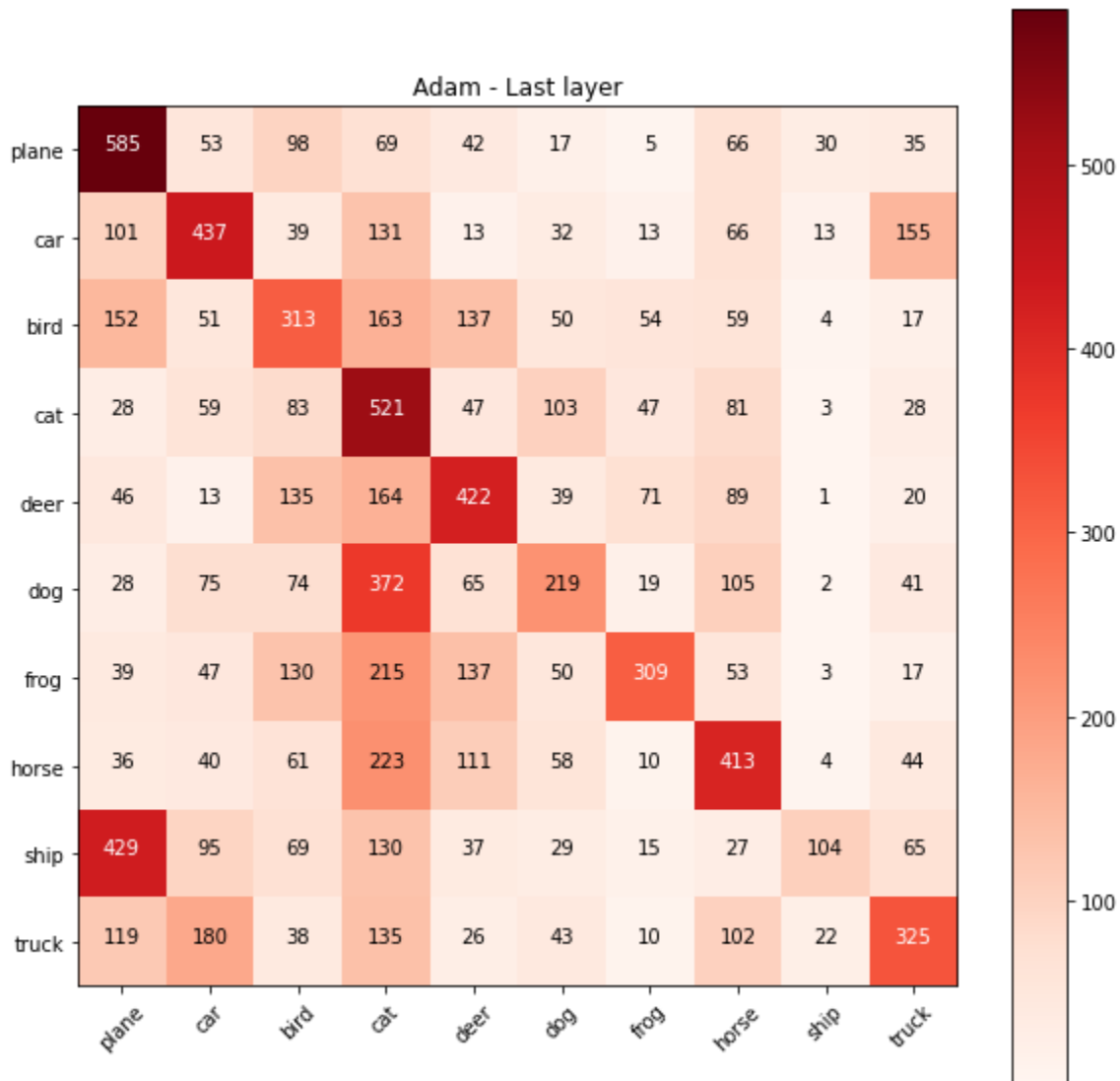
Worst classified class = cat



4. Adam - Last layer trained

Best classified class = plane

Worst classified class = ship



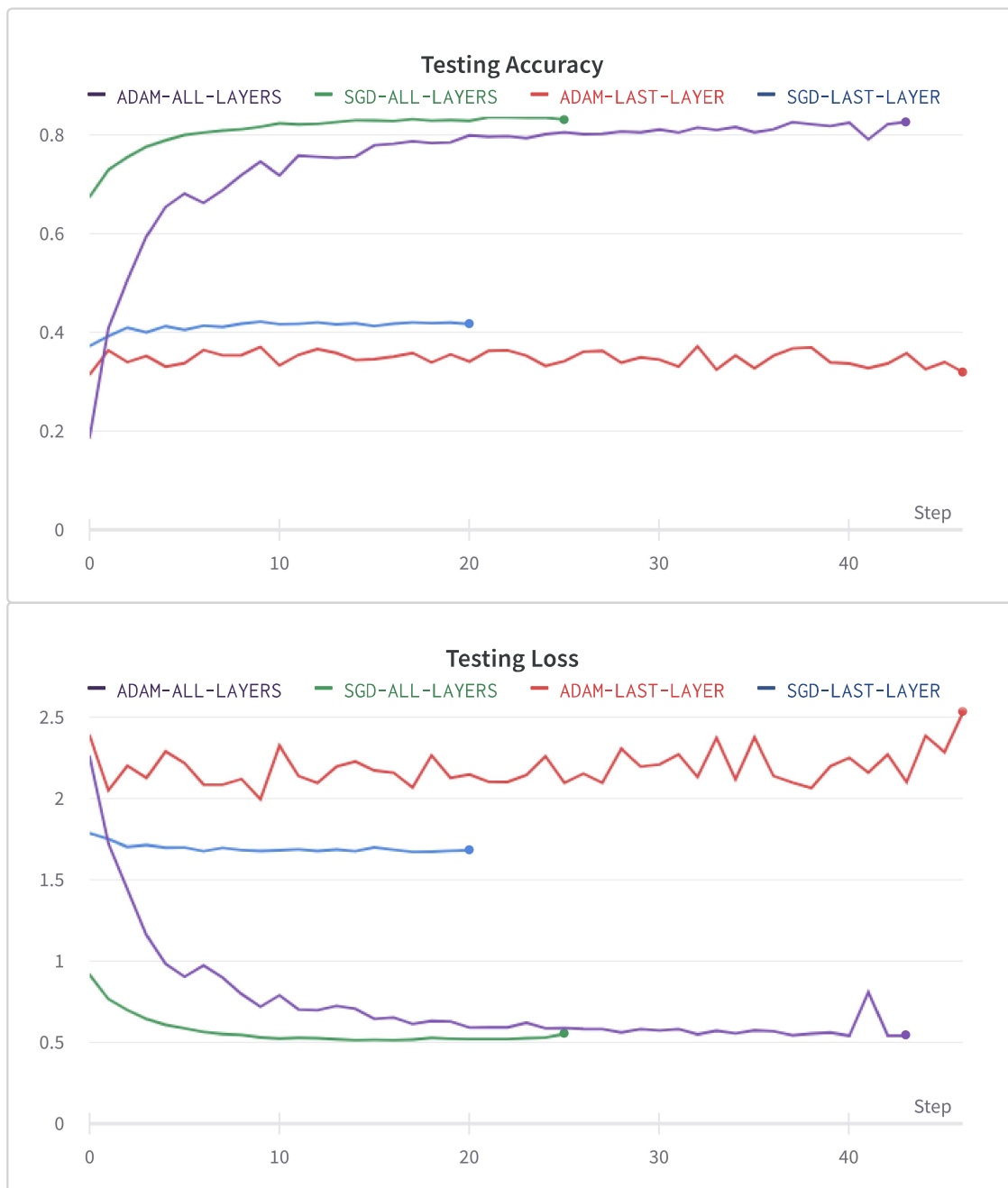
Why are accuracies different in the 2 different models ?

Resnet18 is trained on 224×224 size images. But our input image size is 32×32 . When we train the entire network it adjusts well with this and gives better accuracy. When we use actual ResNet and only train the last layer it does not adapt well with this difference in input image size and hence gives poor accuracy.

WandB Report

Rahul Aditya

▼ Plots





Sample Prediction Samples

SGD-ALL-LAYERS

Pred = ship, Truth = ship

SGD-LAST-LAYER

Pred = car, Truth = ship

Selected Runs Without Media (2)

Step 26

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Sample Prediction Samples

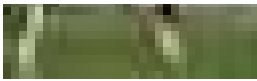
SGD-ALL-LAYERS

Pred = horse, Truth = horse

SGD-LAST-LAYER

Pred = horse, Truth = horse





Pred = horse, Truth =
horse



Pred = car, Truth =
horse

Selected Runs Without Media (2)

Step  26 

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https://wandb.ai/rahul_aditya/Ass2/reports/WandB-Report--VmlldzoxMDM3MzQ1

