**Computer Vision HW2 Report**

Student ID: B10705034

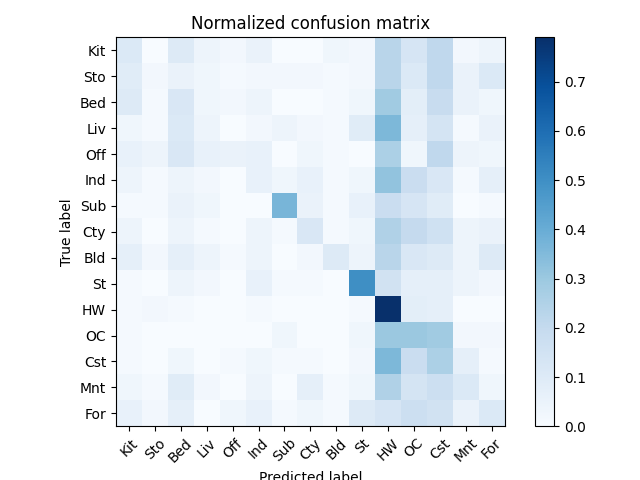
Name: 許文鑫

**Part 1. (10%)**

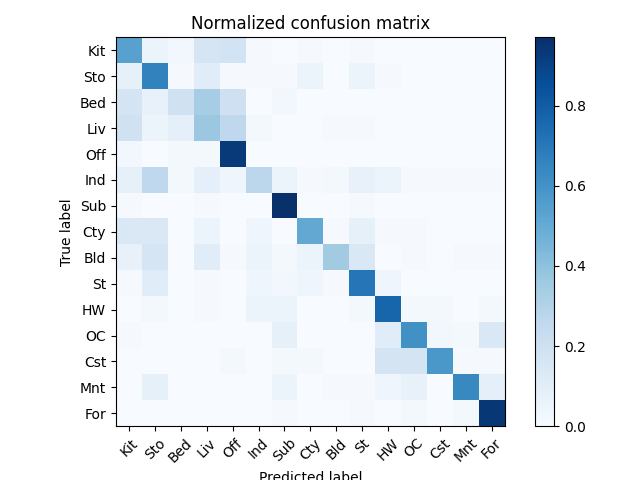
**• Plot confusion matrix of two settings. (i.e. Bag of sift and tiny image) (5%)**

**Ans:**

**Tiny image:**

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**Bag of sift:**

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**• Compare the results/accuracy of both settings and explain the result. (5%)Ans:**

**Tiny image accuracy: 0.204, Bag of sift accuracy: 0.6026667,**

**Part 2. (25%)**

**• Report accuracy of both models on the validation set. (2%)**

**Ans:**

**Mynet: 0.721**

**Resnet: 0.9063**

**• Print the network architecture & number of parameters of both models. What is the main difference between ResNet and other CNN architectures? (5%)**

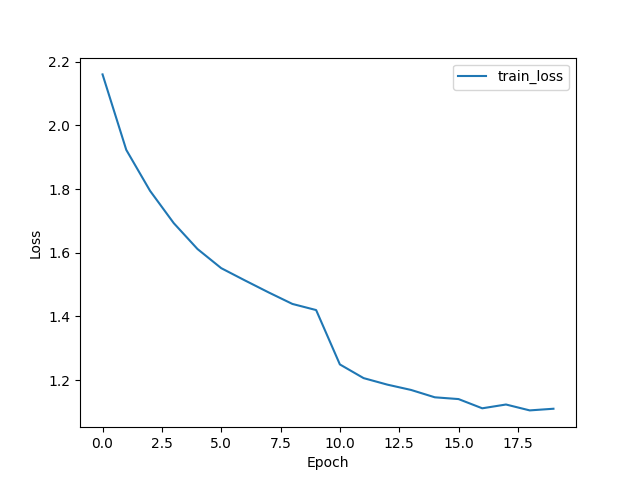
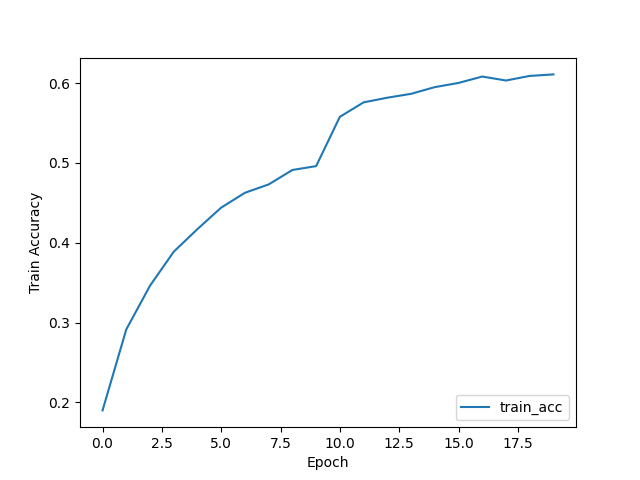
**Ans:**

**• Plot four learning curves (loss & accuracy) of the training process (train/validation) for both models. Total 8 plots. (8%)**

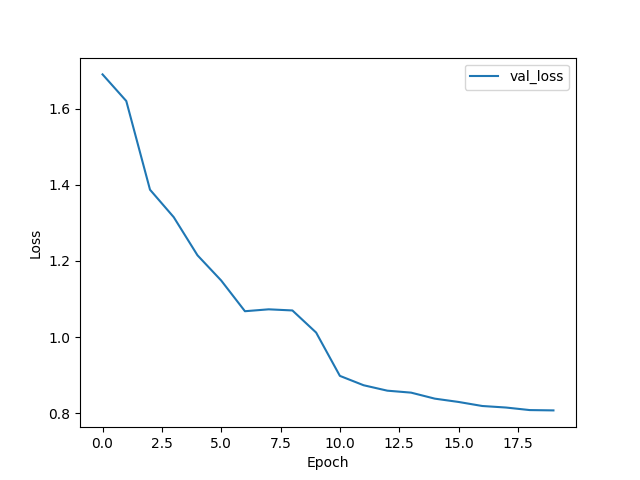
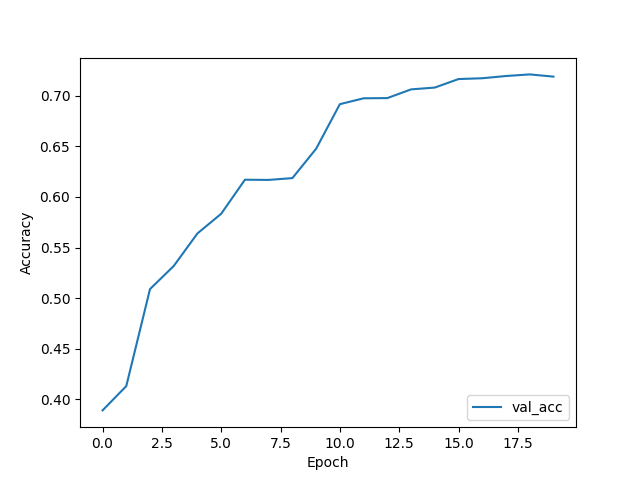
**Ans:**

**Mynet:**

* **Train**

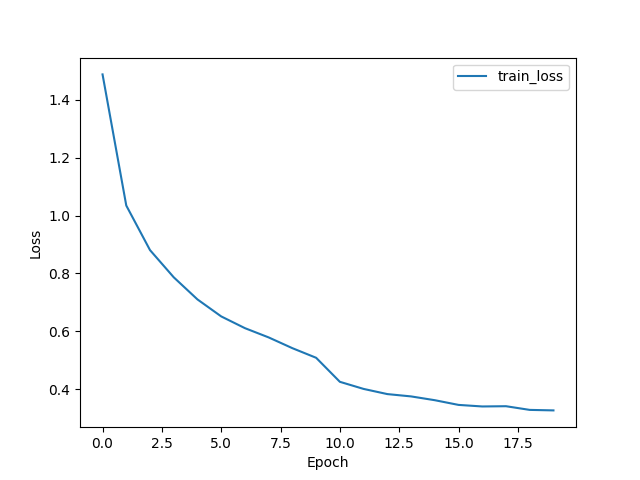
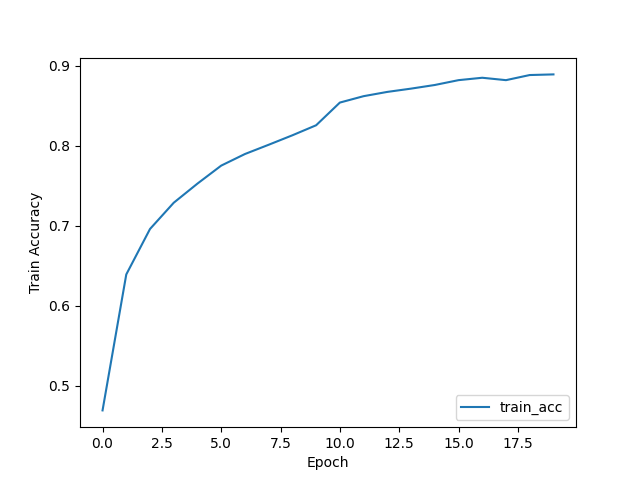
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* **Validation**

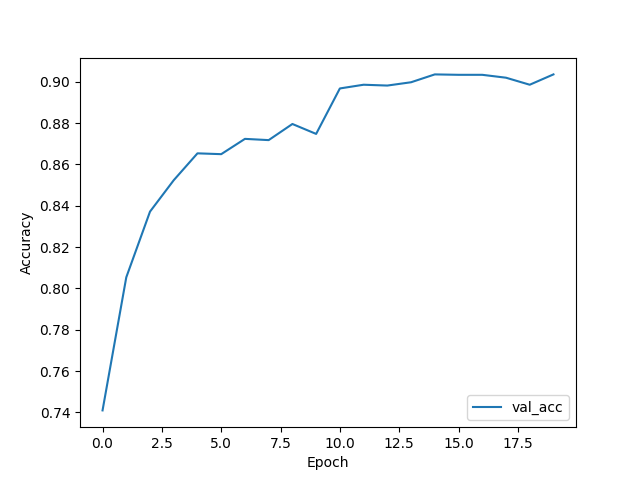
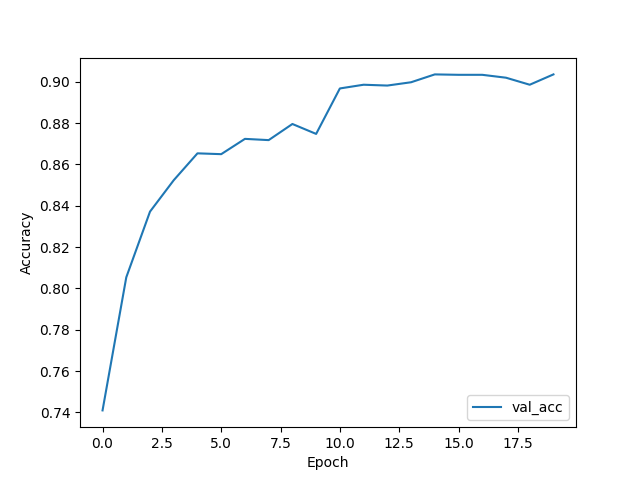
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**Resnet18:**

* **Train**

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* **Validation**

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**• Briefly describe what method do you apply on your best model? (e.g. data augmentation, model architecture, loss function, etc) (10%)**

**Ans:**