EAI Lab2 ReportTask 1 – create your own CNN model

1. Print model summary(including parameters) and plot model(5%)
2. Print test accuracy, plot epoch-train accuracy, epoch-val accuracy, epoch-train loss, epoch-val loss(10%)
3. Describe how do you choose your best model(5%)

Task 2 – ResNet 18 implementation

1. Print model summary(including parameters) and plot model(5%)
2. Print test accuracy, plot epoch-train accuracy, epoch-val accuracy, epoch-train loss, epoch-val loss(10%)
3. Describe how do you choose your best model(5%)
4. Experiment on the following and compare the result with baseline
5. Input image normalization (15%)
6. Data augmentation (15%)
7. Different base learning rate and update strategy (15%)
8. What challenges did you encounter, how did you solve them, and what are your thoughts and suggestions regarding this lab? (15%)