**Technical Writing Week 6 HW** – Outline of final research paper

[ Sohee Kim - 20220344 ]

Paper Topic : Models of Convolutional Neural Network

1. **Introduction**
   1. What is Neural Network?
   2. Background - Computer vision Tasks
      1. Classification : Use Convolutional Neural Network
2. **Body**
   1. About Neural Network
      1. Training neural network
         1. Forward propagation
         2. Backpropagation
      2. Network type - Convolutional Neural Network
         1. About CNN
         2. Models (Architectures)
            * AlexNet
            * VGGNet
            * ResNet
   2. Training Models
      1. Dataset
         1. CIFAR10
      2. Details of learning
         1. Loss function
         2. Optimizer
         3. Batch size, epoch
   3. Result
      1. Accuracy & Loss
      2. Comparing each model
   4. Discussion
3. **Conclusion**
4. **References**

I want to review about 3 CNN architectures, and the result about testing data with these models.

At the introduce part, I will introduce what neural network is and how convolutional neural network (CNN) used. And in Body part, I will more introduce about neural network how it trains models. Then, there will be explanation about CNN which is type of neural network, and 3 models that represent CNN. They have many differences so I will explain what they are different at.  
At next part, I will introduce about dataset that we will train and test with it. Also the details of what we use in training. Then, the comparison results between models will be seen.

This is what I planned to write in paper.