## NNDL\_ASSIGNMENT-7

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Image Classification with CNN:

- 1. Training the model
- 2. Evaluating the model

Programming elements:

- 1. About CNN
- 2. Hyperparameters of CNN
- 3. Image classification with CNN
- 4. Follow the instruction below and then report how the performance changed.(apply all at once)
- Convolutional input layer, 32 feature maps with a size of 3×3 and a rectifier activation function. Dropout layer at 20%. Convolutional layer, 32 feature maps with a size of 3×3 and a rectifier activation function. Max Pool layer with size 2×2. Convolutional layer, 64 feature maps with a size of 3×3 and a rectifier activation function. Dropout layer at 20%. Convolutional layer, 64

feature maps with a size of 3×3 and a rectifier activation function. • Max Pool layer with size 2×2. • Convolutional layer, 128 feature maps with a size of 3×3 and a rectifier activation function. • Dropout layer at 20%. • Convolutional layer,128 feature maps with a size of 3×3 and a rectifier activation function. • Max Pool layer with size 2×2. • Flatten layer. • Dropout layer at 20%. • Fully connected layer with 1024 units and a rectifier activation function. • Dropout layer at 20%. • Fully connected layer with 512 units and a rectifier activation function. • Dropout layer at 20%. • Fully connected output layer with 10 units and a Softmax activation function

## **GITHUB LINK:**

akhil1127/nueral-network-ass-7 (github.com)















