

Object Image Classification Using Convolutional Neural Network ReadME

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1 Execution

Executing the program

```
python3 main.py
```

For example, with folder like this

```
|___final  
| |___main.py  
| |___input.py  
| |___data  
| | |___cifar-10-batches-py
```

We can execute like:

```
cd OneDrive/UTDallas/Course6375 Machine Learning/final  
final git:(master) python3 main.py
```

The output with 10000 iterations will be produced. After every 50 iterations, the accuracies of train and test will be printed.

2 Note

To execute the project, you firstly need to install libraries, "tensorflow", "sklearn", "prettytensor", "pickle" and "numpy", and then download the dataset "CIFAR-10" into project category.

In the code "main.py", the iterations could be modified. And the execution of program will be slow, so please be patient.

In the meanwhile, a file named "checkpoints" which is used to store trained neurons before will be produced.