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ReadMe:

Introduction:

Greetings executers . Executers can to run the .inpb file on google colab. Sequential order is maintained in the project . The code is self explanatory. Some code slots are given with respect to executers evaluation, Proper commenting is done on that slots. The dataset is also available in the code. At last , A small menu driven program is available which is designed for executers. Executers can perform all the operation regarding with my model. An order of Randomness is maintained so that an executer can evaluate the model with different inputs , Executers just need to execute a particular code block.

Model:

This section contains the glims of a project. The project is divided into 4 types:

- Data Preprocessing
- Data Visualization
- Training and Testing
- Results

Data Preprocessing : Normalization for image and one-hot-encoding for labels is performed. Data is already available in proper size and reducing noise can lose the data hence resize and noise reduction is not performed

Data Visualization : Arranged data of images are available for executer . I made a precise visualization function for executers and eventually for my visualization.

Training and Testing : CNN algorithm is performed. Other details is available in .inpb file.

Results: Various types of results are performed accuracy graph , loss graph , evaluation accuracy , confusion matrix and comparison with other model accuracy (SOTA). The data for SOTA is taken from https://paperswithcode.com/sota/image-classification-on-cifar-10 . Table in SOTA function is generated with respect to the given link.

Other details:

If executers have any issue of running or any type of difficulty to executer the code.For that , I am providing my contact details .

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Conclusion:

Thankyou very much for executing my code. I got a great experience with the round 2 competition. I hope you all have great day.