Basic Log Files Naming Convention

c10 - cifar 10
c100 - cifar 100

gate_classifier - model that works

Folder - cifar_resnets_findingbestval

Miscellaneous type A.
Name construction scheme used :

Base resnet : Resnet110,
sc : scratch,
lt1 : gate/model iterations ratio = 1
g-2 : gate initial lr = 0.01
c : gate learning rate is constant
m-1 : model initial lr = 0.1
3248 : reduce model lr at 32k, 48k iterations
4770 : reduce model lr at 47k, 70k iterations
Xe-y : the val/train split ratio

e.g. runs_c10_resnet_gate_classifier110_scit1g-2cm-1_3248_1e-1

Folder - cifar_resnets_modified_val

Block level gates type F
Contains trainings on gate classifier model with a 45k/5k train/val split

4770 : reduce model lr at [133, 200] epochs
_bi_ : baseline initialisation
scratch : random initialisation
lt3 - gate/model iterations ratio = 3
g-3 : gate initial lr = 0.001
c/no c : constant gate lr/reduce gate lr by 0.1 every 50 epochs
m-1 : model initial lr = 0.1
_lr1by347last : reduce model lr by 1/3rd instead of 0.1, reduce at 133rd epoch only
_lr1by34770 : reduce model lr by 1/3rd instead of 0.1, reduce at 133rd and 200th epochs

Folder - cifar_resnets_modified

Block level gates types C, E, G, H, I
Contains trainings on 50k images trainset

Name construction scheme used is same as above. Key of different folders :

- c100res110_gate_classifier - resnet 110, cifar 100, gate classifier
- gate_classifier_c10_4runs - 4 runs on each of cifar 10, resnet 110 to report performance of 5 runs
- gate_classifier_c10_b2b3scratch
- gate_classifier_c10_it1 - single run, cifar 10, resnet 110, gate/model iterations ratio = 1
- gate_classifier_c10_it3 - single run, cifar 10, resnet 110, gate/model iterations ratio = 3

- gate_classifier_c10_it5 - single run, cifar 10, resnet 110, gate/model iterations ratio = 5
- gate_classifier_c100_4runs - 4 runs on each of cifar 100, resnet 164 to report performance of 5 runs
- gate_classifier_c100_it1 - single run, cifar 100, resnet 164, gate/model iterations ratio = 1
- modl3cel_cifar10_bceloss - model with 2 way softmax output gate, trained using binary cross entropy loss
- modl3cel_cifar10_celloss - model with 2 way softmax output gate, trained using cross entropy loss
- modl3cel_cifar100 - model with 2 way softmax output gate, trained using binary cross entropy loss
- modl3cel_cifar100_celloss - model with 2 way softmax output gate, trained using cross entropy loss

Folder - cifar_resnets_gating_withloss

Layer level gates, type B model
50k train images

shg : shortcut only gating
exg : exclusive gating
_0e-2 : lambda = 0.01

Folder - cifar_resnets_modified_l3_gnorm_entropy

Block level gates type B and D
50k train images

xe+/-y : lambda value