

1). FreeSolv Dataset without path info:

num_layers: 1
hidden_dim: 1140
dropout: 0.35284208911987097
weight_decay: 7.23627925373074e-13
batch_size: 6
lr: 0.02826411346239421

2). FreeSolv Dataset with path info:

num_layers: 1
hidden_dim: 822
dropout: 0.25040225526791315
weight_decay: 2.1900615298652762e-11
batch_size: 5
lr: 0.01480783638074209

3). ESOL Dataset without path info:

num_layers: 3
hidden_dim: 1693
dropout: 0.1510167876715585
weight_decay: 1.2070545057911897e-14
batch_size: 6
lr: 5.398931930701244e-05

4). ESOL Dataset with path info:

num_layers: 1
hidden_dim: 1140
dropout: 0.352842089119871
weight_decay: 7.236279253730739e-13
batch_size: 6
lr: 0.02826411346239421

5). Lipophilicity Dataset without path info:

num_layers: 5
hidden_dim: 216
dropout: 0.06700768752649812
weight_decay: 3.688271435423211e-17
batch_size: 10
lr: 0.0003517535582038414

6). Lipophilicity Dataset with path info:

num_layers: 1
hidden_dim: 1063
dropout: 0.37734415134720195
weight_decay: 5.6816812864901595e-12
batch_size: 6
lr: 0.017300412267544567

7). BACE Dataset without path info:

num_layers: 8
hidden_dim: 1469
dropout: 0.013727100289684935
weight_decay: 7.713656142221479e-20
batch_size: 6 lr: 1.034569032027967e-05

8). BACE Dataset with path info:

num_layers: 10
hidden_dim: 1153
dropout: 0.16901575933400212
weight_decay: 5.198943032599008e-19
batch_size: 6
lr: 0.027719213611673548

9). BBBP Dataset without path info:

num_layers: 2
hidden_dim: 1328
dropout: 0.320850178619817
weight_decay: 4.839449546942612e-13
batch_size: 9

lr: 1.028415295990143e-05

10). BBBP Dataset with path info:

num_layers: 2
hidden_dim: 950
dropout: 0.35884332562448734
weight_decay: 1.3199175780171488e-13
batch_size: 6
lr: 0.02264362916117087

11). ClinTox Dataset without path info:

num_layers: 2
hidden_dim: 836
dropout: 0.5057676787279919
weight_decay: 5.675655323614401e-19
batch_size: 9
lr: 0.01626814807011862

12). ClinTox Dataset with path info:

num_layers: 1
hidden_dim: 1105
dropout: 0.3968982875212832
weight_decay: 3.9808663662202697e-07
batch_size: 4
lr: 0.04344142144953944

13). Example Usage:

```
python train_deeper_gcn.py --use_gpu 1 --dataset ClinTox
--repetition 1 --epochs 200
--use_path_info 1 --add_noise 1 --noise_factor 0.5
--num_layers 1 --hidden_dim 1105
--dropout 0.40 --weight_decay 3.9808663662202697e-07 --batch-size 4
--lr 0.04344142144953944 --dir_to_save_model
/path/to/deeper_gcn_models
```