

Problem 1:

Model:

Uses 6 graph convolutions

1. `conv1 = GCNConv(37, 64, normalize=True)`
2. `conv2 = GCNConv(64, 64, normalize=True)`
3. `conv3 = GCNConv(64, 128, normalize=True)`
4. `conv4 = GCNConv(192, 256, normalize=True)`
5. `conv5 = GCNConv(256, 512, normalize=True)`
6. `conv6 = GCNConv(512, 512, normalize=True)`
7. Final regression layer = `nn.Linear(512, 1)`

Activation used:

1. `Relu()`

Pooling layer:

1. Global maximum pooling

Loss function:

1. `MSELoss()`

Optimizer:

1. `optimizer = torch.optim.Adam(model.parameters(), lr=0.001, weight_decay=1e-5)`

Num epochs: 150

Final test loss: 3.28

Final MSE Loss: 122.388



