With Xavier (Glorot) Weight Initialization:

1. Code Changes:

 Added a function _initialize_weights() to the model_architecture() class that applies Xavier weight initialization. Also, init() function from torch.nn library must be imported:

from torch.nn import init

def _initialize_weights(self, init_type):
Loop through each layer and initialize the weights
for m in self.model:
 if isinstance(m, nn.Linear):

init.normal_(m.weight, mean=0.0, std=1.0) # Mean and standard deviation

2. Output:

