



+ Code + Text



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```
def main():  
    """  
    This is an example of how to use the framework when completed. You can build off of this code to design your experiments for part 2.  
    """  
  
    x_train, y_train, x_test, y_test = normalize_mnist()  
  
    # Example: MLP with one hidden layer of size 256.  
    model = MLP([784, 256, 10])  
    model.initialize()  
    model.set_hp(lr=1e-6, bs=512, activation=ReLU)  
  
    E = 25 # number of epochs  
    for epoch in range(E):  
        #print(f"\nEpoch {epoch+1}/{E}")  
        TrainMLP(model, x_train, y_train)  
        #TestMLP(model, x_test, y_test)  
        loss, accuracy = TestMLP(model, x_test, y_test)  
  
    print("Test Accuracy (Final): " + str(accuracy))  
  
    """  
    For the experiment, adjust the list [784,...,10] as desired to test other architectures.  
    You are encouraged to play around with any of the following values if you so desire:  
    E, lr, bs, activation  
    """  
  
if __name__ == "__main__":  
    main()
```



Test Accuracy (Final): tensor(84.4881)

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