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January 27, 2026

1 STP598 Advanced Deep Learning Models

1.1 Written Assignment 1

1.1.1 Due 11:59pm Friday Feb. 6, 2026 on Canvas

1.1.2 name, id

1.2 Question 1

What is ResNet? (Exact copy of GPT answer may result in 0 point!)

1.3 Question 2

What problem does ResNet solve? Why does ResNet work? (Exact copy of GPT answer may result in 0 point!)

1.4 Question 3

Train a ResNet-50 on CIFAR-10. Split the dataset into training and testing sets. Make the following plots:

- training loss and testing loss with respect to training epochs.
- training error (for classification) and testing error with respect to training epochs.

1.5 Question 4

Repeat the above question for ResNet-101.