CS 4476 PS5

Name
GT Email
GT ID

Part 1: Standard Scaler: Why did we use StandardScaler instead of looping over all the dataset twice for mean and standard deviation? Why a simple loop will not be a good choice in a deployed production grade ML system?

<text answer here>

Part 1: Why do we normalize our data (0 mean, unit standard deviation)?

Part 3: Loss function. Why did we need a loss function?

<text answer here>

Part 3: Explain the reasoning behind the loss function used

Part 5: Training SimpleNet

<Loss plot here>   <Accuracy plot here>

Final training accuracy value:

Final validation accuracy value:

Conclusion: briefly discuss what you have learned from this project.

<Text solution here>

EC1.1: Screenshot of your get_data_augmentation_transforms()

<Screenshot here if attempted; do not delete the slide if not attempted>

EC1: Training to solve overfitting

<Loss plot here>   <Accuracy plot here>

Final training accuracy value:

Final validation accuracy value:

EC2 AlexNet: Training Alexnet

<Loss plot here>   <Accuracy plot here>

Final training accuracy value:

Final validation accuracy value: