STAT 760 Homework 6

Wednesday, March 29, 2022

Exercise 1. (Programming)-12 pts

Implement a linear regression on California 1990 Housing Value dataset via neural network by PyTorch without nn.Module. Write your own loss function and forward function. The data Housing.csv can be downloaded from the website https://www.kaggle.com/datasets/harrywang/housing.

Exercise 2. (programming) – 18 pts

Write a Python programming to classify 7 classes from the CIFAR-10 dataset. The seven classes are automobile (1), cat (3), dog (5), frog (6), horse (7), ship (8), and truck (9). Please use the PyTorch library to model your neural network with nn.Module and show the accuracy of each class and the total accuracy.