

Q2. Consider the House Price Prediction dataset. Suppose you need to predict the Sale Price of a house and for the task you want to use a neuralnetwork with 3 hidden layers. Write a report on how you would modify your above neural network for such task with proper reasoning.

Answer.

This problem is a regression problem, unlike classification in previous part.

First we need to convert categorical variables to numerical ones.

We can use one-hot-encoding to represent categorical variables.

There are various missing values in the dataset. We can use the most probable value in case of categorical attribute and mean in case of numerical attributes.

Also there is no need to use softmax function at the output layer, we can use sigmoid or tanh.

The loss function can be modified to mean squared