```
import torch
import torch.nn as nn
import torch.nn.functional as F
from torch.utils.data import Dataset, DataLoader
from sklearn.model_selection import train_test_split
import pandas as pd
import matplotlib.pyplot as plt
class Model(nn.Module):
    def __init__(self, in_features=4, h1=11, h2=11, out_features=3):
        super().__init__()
        self.fc1 = nn.Linear(in_features,h1)
                                                 # input layer
        self.fc2 = nn.Linear(h1, h2)
                                                 # hidden layer
        self.out = nn.Linear(h2, out_features) # output layer
    def forward(self, x):
        x = F.relu(self.fc1(x))
        x = F.relu(self.fc2(x))
        x = self.out(x)
        return x
torch.manual_seed(32)
model = Model()
df = pd.read_csv('iris.csv')
df.head()
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    View recommended plots

                                                                 New interactive sheet
 Next steps:
             Generate code with df
Start coding or generate with AI.
X = df.drop('target',axis=1).values
y = df['target'].values
X_train, X_test, y_train, y_test = train_test_split(X,y,test_size=0.2,random_state=33)
X_train = torch.FloatTensor(X_train)
X_test = torch.FloatTensor(X_test)
# y_train = F.one_hot(torch.LongTensor(y_train)) # not needed with Cross Entropy Loss
# y_test = F.one_hot(torch.LongTensor(y_test))
y_train = torch.LongTensor(y_train)
y_test = torch.LongTensor(y_test)
trainloader = DataLoader(X_train, batch_size=60, shuffle=True)
testloader = DataLoader(X_test, batch_size=60, shuffle=False)
torch.manual_seed(4)
model = Model()
```