神經網路又稱在機器學 深色傳(自變量、應變量) 一資料清光一 模型建立一模型試斷 数种短别的多圈船;無限制,效率高,效率高 缺點:黑盒子

import pandas as p

import pandas as pd
import numpy as np
from sklearn import datasets, preprocessing
from sklearn.model_selection import train_test_split
from keras.models import Sequential
from keras.layers import Dense,Dropout
from keras.optimizers import SGD, Adam
import matplotlib.pyplot as plt

句叫出下了資料

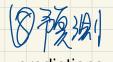
iris = datasets.load_iris()
df = pd.DataFrame(iris['data'], columns=iris['feature_names'])

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min_max_scaler = preprocessing.MinMaxScaler()
df =
pd.DataFrame(min_max_scaler.fit_transform(df),columns=iris['feature_na mes'])

中和出庭设置不自复量

labels = np.array(df['sepal length (cm)']) #應變數 features= df.drop('sepal length (cm)', axis = 1) #自變數 trainX, testX, trainY, testY = train_test_split(features, labels, test_size = 0.3, random_state = 42) trainY = trainY.reshape(-1, 1) #創行 testY = testY.reshape(-1, 1) #創行 model = Sequential() model.add(Dense(64), input_dim=3, activation='relu')) model.add(Dropout(0.5)) model.add(Dense(1)) #類別型, activation='softmax' model.compile(loss='mse', #類別型'categorical_crossentropy' optimizer=SGD(r=0.1),#adam metrics=['mse','mape']) #類別型'accuracy' #%% = model.fit(trainX, trainY,epochs=20,batch_size=30)



predictions = model.predict(testX)
predictions = predictions.reshape(-1, 1)
np.mean(np.abs((testY - predictions))) #mae
np.mean(np.abs((testY - predictions) / testY)) * 100 #mape

像是有1一個類別結果1万14