

Exp - 18 Implementing artificial neural networks for an application using python - Regression.

Code:

from sklearn.neural_network import MLPRegressor
from sklearn.model_selection import train_test_split
from sklearn.datasets import make_regression

import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline

X, y = make_regression(n_samples=1000,
noise=0.005, n_features=100)

X.shape, y.shape = (1000, 100), (1000)
X_train, X_test, y_train, y_test = train_test_split(X, y,
random_state=42)

ml = MLPRegressor(max_iter=1000)

ml.fit(X_train, y_train)

o/p

Rs Source after test data = 0968655846635

Result :
The program was successfully executed and the o/p is verified.