Ex no:11 Implementing artificial neral network for an application using Python - Regression.

Date:

Aim:

To implementing artificial neural networks for an application in regression using.

Python

Program:

```
From Sklearn.neural_network import MLP regressor
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 = 0.05, n_features = 100)
X.shape, y.shape = ((1000, 100), (1000, ))
X_train, X_test, y_train, y_test = train_test_split (X, y, test_size = 0.2, shuffle = True, random_state = 42)
clf = MLPRegressor (max_iter = 1000)
clf.fit (X_train, y_train)
```

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output:

R2 score for test Data = 0.9686558421521

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he Program was successfully executed and
- Output is verified.