AI_Lab_15-Oct-2024

October 26, 2024

Implement a simple 3-layer neural network from scratch using Python and numpy. The network should have 2 input neurons, 2 hidden neurons, and 1 output neuron, using the sigmoid activation for both hidden and output layers. Train it on the XOR dataset using backpropagation for 100 epochs, printing the loss every 10 epochs. After training, print the predicted outputs for the XOR inputs.

```python
[4]: import numpy as np
import pandas as pd

# Load XOR dataset
data = pd.read_csv('Xor_Dataset.csv')
X = data[['X', 'Y']].values
y = data['Z'].values.reshape(-1, 1)

# Sigmoid activation function and its derivative
def sigmoid(x):
    return 1 / (1 + np.exp(-x))

def sigmoid_derivative(x):
    return x * (1 - x)




input_neurons = 2
hidden_neurons = 2
output_neurons = 1
learning_rate = 0.01
epochs = 100


np.random.seed(42)
weights_input_hidden = np.random.randn(input_neurons, hidden_neurons) * 0.01
weights_hidden_output = np.random.randn(hidden_neurons, output_neurons) * 0.01
bias_hidden = np.zeros((1, hidden_neurons))
bias_output = np.zeros((1, output_neurons))

# Training loop
```

```python
for epoch in range(epochs):

    hidden_input = np.dot(X, weights_input_hidden) + bias_hidden
    hidden_output = sigmoid(hidden_input)

    final_input = np.dot(hidden_output, weights_hidden_output) + bias_output
    predicted_output = sigmoid(final_input)


    loss = y - predicted_output
    mean_squared_error = np.mean(loss ** 2)


    if epoch % 10 == 0:
        print(f"Epoch {epoch}, Loss: {mean_squared_error}")


    output_error = loss * sigmoid_derivative(predicted_output)
    hidden_error = output_error.dot(weights_hidden_output.T) *␣
 ↪sigmoid_derivative(hidden_output)


    weights_hidden_output += hidden_output.T.dot(output_error) * learning_rate
    weights_input_hidden += X.T.dot(hidden_error) * learning_rate
    bias_output += np.sum(output_error, axis=0, keepdims=True) * learning_rate
    bias_hidden += np.sum(hidden_error, axis=0, keepdims=True) * learning_rate

print("\nPredicted outputs for XOR inputs:")
for i, x in enumerate(X):
    hidden_input = np.dot(x, weights_input_hidden) + bias_hidden
    hidden_output = sigmoid(hidden_input)
    final_input = np.dot(hidden_output, weights_hidden_output) + bias_output
    output = sigmoid(final_input)
    print(f"Input: {x}, Predicted Output: {output[0][0]:.3f}")
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Epoch 0, Loss: 0.2500059594416229
Epoch 10, Loss: 0.4718667222545044
Epoch 20, Loss: 0.39776518631661484
Epoch 30, Loss: 0.46409215983581564
Epoch 40, Loss: 0.26886753857257784
Epoch 50, Loss: 0.3729850380883464
Epoch 60, Loss: 0.3243122870798377
Epoch 70, Loss: 0.4595511594540467
Epoch 80, Loss: 0.38293122659033463
Epoch 90, Loss: 0.4746373363561981

Predicted outputs for XOR inputs:
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Input: [0 0], Predicted Output: 0.077
Input: [0 1], Predicted Output: 0.137
Input: [1 1], Predicted Output: 0.154
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