AI_LAB_15-Oct-2024_1

October 26, 2024

Write a Python program using Keras to build a deep learning model with 4 layers for binary classification. The model should have 2 hidden layers with 32 and 16 neurons respectively, each using the ReLU activation function. The output layer should use a sigmoid activation function. Use the XOR dataset as input, and train the model for 50 epochs. After training, print the final accuracy and the predicted output for each input.

```python
[1]: import numpy as np
     import pandas as pd
     from tensorflow.keras.models import Sequential
     from tensorflow.keras.layers import Dense
     from tensorflow.keras.optimizers import Adam
     from tensorflow.keras.losses import BinaryCrossentropy
     from sklearn.metrics import accuracy_score
```

```python
[2]: # Load XOR dataset
     data = pd.read_csv('Xor_Dataset.csv')
     X = data[['X', 'Y']].values
     y = data['Z'].values
```

```python
[3]: # Define the model
     model = Sequential([
         Dense(32, activation='relu', input_shape=(2,)),
         Dense(16, activation='relu'),
         Dense(1, activation='sigmoid')
     ])
```

```python
[4]: # Compile the model
     model.compile(optimizer=Adam(learning_rate=0.01), loss=BinaryCrossentropy(),
       ↪metrics=['accuracy'])

     # Train the model
     model.fit(X, y, epochs=50, verbose=1)
```

```
Epoch 1/50
313/313 [==============================] - 1s 1ms/step - loss: 0.0617 -
accuracy: 0.9810
Epoch 2/50
313/313 [==============================] - 0s 1ms/step - loss: 1.3026e-04 -
accuracy: 1.0000
```

```
Epoch 3/50
313/313 [==============================] - 0s 1ms/step - loss: 4.3844e-05 -
accuracy: 1.0000
Epoch 4/50
313/313 [==============================] - 0s 1ms/step - loss: 2.1975e-05 -
accuracy: 1.0000
Epoch 5/50
313/313 [==============================] - 0s 1ms/step - loss: 1.3032e-05 -
accuracy: 1.0000
Epoch 6/50
313/313 [==============================] - 0s 1ms/step - loss: 8.4927e-06 -
accuracy: 1.0000
Epoch 7/50
313/313 [==============================] - 0s 1ms/step - loss: 5.8805e-06 -
accuracy: 1.0000
Epoch 8/50
313/313 [==============================] - 0s 1ms/step - loss: 4.2450e-06 -
accuracy: 1.0000
Epoch 9/50
313/313 [==============================] - 0s 1ms/step - loss: 3.1591e-06 -
accuracy: 1.0000
Epoch 10/50
313/313 [==============================] - 0s 1ms/step - loss: 2.4058e-06 -
accuracy: 1.0000
Epoch 11/50
313/313 [==============================] - 0s 1ms/step - loss: 1.8647e-06 -
accuracy: 1.0000
Epoch 12/50
313/313 [==============================] - 0s 1ms/step - loss: 1.4651e-06 -
accuracy: 1.0000
Epoch 13/50
313/313 [==============================] - 0s 1ms/step - loss: 1.1641e-06 -
accuracy: 1.0000
Epoch 14/50
313/313 [==============================] - 0s 1ms/step - loss: 9.3302e-07 -
accuracy: 1.0000
Epoch 15/50
313/313 [==============================] - 0s 1ms/step - loss: 7.5355e-07 -
accuracy: 1.0000
Epoch 16/50
313/313 [==============================] - 0s 1ms/step - loss: 6.1259e-07 -
accuracy: 1.0000
Epoch 17/50
313/313 [==============================] - 0s 1ms/step - loss: 5.0046e-07 -
accuracy: 1.0000
Epoch 18/50
313/313 [==============================] - 0s 1ms/step - loss: 4.1051e-07 -
accuracy: 1.0000
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```
Epoch 19/50
313/313 [==============================] - 0s 1ms/step - loss: 3.3833e-07 -
accuracy: 1.0000
Epoch 20/50
313/313 [==============================] - 0s 1ms/step - loss: 2.7931e-07 -
accuracy: 1.0000
Epoch 21/50
313/313 [==============================] - 0s 1ms/step - loss: 2.3174e-07 -
accuracy: 1.0000
Epoch 22/50
313/313 [==============================] - 0s 1ms/step - loss: 1.9257e-07 -
accuracy: 1.0000
Epoch 23/50
313/313 [==============================] - 0s 1ms/step - loss: 1.6034e-07 -
accuracy: 1.0000
Epoch 24/50
313/313 [==============================] - 0s 1ms/step - loss: 1.3423e-07 -
accuracy: 1.0000
Epoch 25/50
313/313 [==============================] - 0s 1ms/step - loss: 1.1352e-07 -
accuracy: 1.0000
Epoch 26/50
313/313 [==============================] - 0s 1ms/step - loss: 9.5433e-08 -
accuracy: 1.0000
Epoch 27/50
313/313 [==============================] - 0s 1ms/step - loss: 7.9201e-08 -
accuracy: 1.0000
Epoch 28/50
313/313 [==============================] - 0s 1ms/step - loss: 6.5303e-08 -
accuracy: 1.0000
Epoch 29/50
313/313 [==============================] - 0s 1ms/step - loss: 5.4271e-08 -
accuracy: 1.0000
Epoch 30/50
313/313 [==============================] - 0s 1ms/step - loss: 4.5989e-08 -
accuracy: 1.0000
Epoch 31/50
313/313 [==============================] - 0s 1ms/step - loss: 3.9860e-08 -
accuracy: 1.0000
Epoch 32/50
313/313 [==============================] - 0s 1ms/step - loss: 3.5162e-08 -
accuracy: 1.0000
Epoch 33/50
313/313 [==============================] - 0s 1ms/step - loss: 3.1484e-08 -
accuracy: 1.0000
Epoch 34/50
313/313 [==============================] - 0s 1ms/step - loss: 2.8563e-08 -
accuracy: 1.0000
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```
Epoch 35/50
313/313 [==============================] - 0s 1ms/step - loss: 2.6213e-08 -
accuracy: 1.0000
Epoch 36/50
313/313 [==============================] - 0s 1ms/step - loss: 2.4304e-08 -
accuracy: 1.0000
Epoch 37/50
313/313 [==============================] - 0s 1ms/step - loss: 2.2753e-08 -
accuracy: 1.0000
Epoch 38/50
313/313 [==============================] - 0s 1ms/step - loss: 2.1465e-08 -
accuracy: 1.0000
Epoch 39/50
313/313 [==============================] - 0s 1ms/step - loss: 2.0396e-08 -
accuracy: 1.0000
Epoch 40/50
313/313 [==============================] - 0s 1ms/step - loss: 1.9500e-08 -
accuracy: 1.0000
Epoch 41/50
313/313 [==============================] - 0s 1ms/step - loss: 1.8768e-08 -
accuracy: 1.0000
Epoch 42/50
313/313 [==============================] - 0s 1ms/step - loss: 1.8146e-08 -
accuracy: 1.0000
Epoch 43/50
313/313 [==============================] - 0s 1ms/step - loss: 1.7607e-08 -
accuracy: 1.0000
Epoch 44/50
313/313 [==============================] - 0s 1ms/step - loss: 1.7169e-08 -
accuracy: 1.0000
Epoch 45/50
313/313 [==============================] - 0s 1ms/step - loss: 1.6740e-08 -
accuracy: 1.0000
Epoch 46/50
313/313 [==============================] - 0s 1ms/step - loss: 1.6416e-08 -
accuracy: 1.0000
Epoch 47/50
313/313 [==============================] - 0s 1ms/step - loss: 1.6130e-08 -
accuracy: 1.0000
Epoch 48/50
313/313 [==============================] - 0s 1ms/step - loss: 1.5847e-08 -
accuracy: 1.0000
Epoch 49/50
313/313 [==============================] - 0s 1ms/step - loss: 1.5530e-08 -
accuracy: 1.0000
Epoch 50/50
313/313 [==============================] - 0s 1ms/step - loss: 1.5160e-08 -
accuracy: 1.0000
```

[4]: <keras.src.callbacks.History at 0x1d9992d91f0>

```python
loss, accuracy = model.evaluate(X, y, verbose=0)
print(f"\nFinal Accuracy: {accuracy * 100:.2f}%")



predictions = model.predict(X)
print("\nPredicted outputs for XOR inputs:")
for i, x in enumerate(X):
    print(f"Input: {x}, Predicted Output: {predictions[i][0]:.3f}")
```

```
Final Accuracy: 100.00%
313/313 [==============================] - 0s 842us/step

Predicted outputs for XOR inputs:
Input: [0 0], Predicted Output: 0.000
Input: [0 1], Predicted Output: 1.000
Input: [1 1], Predicted Output: 0.000
Input: [1 1], Predicted Output: 0.000
Input: [0 0], Predicted Output: 0.000
Input: [1 0], Predicted Output: 1.000
Input: [1 1], Predicted Output: 0.000
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Input: [0 0], Predicted Output: 0.000
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