```
--- Data Preparation & Consolidation ---

    Initial Consolidated Dataset (with iss

                Feature B Target Class
    Feature A
0
         10.0
                     20.5
         12.0
1
                     24.1
                                       1
2
                     20.5
                                       0
         10.0
3
         15.0
                     NaN
                                       1
4
         11.0
                     22.0
                                       0
5
                                       1
         18.0
                     30.2
6
                     28.5
         15.0
                                       1
7
         11.0
                     22.0
                                       0
8
         20.0
                     35.0
                                       0
9
         13.0
                     25.5
                                       1
                     27.0
10
                                       1
          NaN
Duplicates removed. 2 rows were dropped.
Missing values before:
 Feature A
                 1
                 1
Feature B
Target_Class
                 0
dtype: int64
Missing values addressed by filling with
Missing values after:
                  0
 Feature A
                 0
Feature B
Target Class
                 0
dtype: int64
Cleaned and Structured Dataset:
    Feature A Feature B Target Class
0
        10.00
                     20.5
                                       0
                                       1
1
                     24.1
        12.00
                                       1
        15.00
                     26.6
4
                                       0
        11.00
                     22.0
5
        18.00
                     30.2
                                       1
        15.00
6
                     28.5
```

6	15.00	28.5	1	
8	20.00	35.0	0	
9	13.00	25.5	1	
10	14.25	27.0	1	

--- Neural Network Modelling ---

3. Model Parameters: {'hidden_layer_sizes
/tmp/ipython-input-514419638.py:49: Futur
The behavior will change in pandas 3.0. T

For example, when doing 'df[col].method(v

df[col].fillna(df[col].mean(), inplace=

Neural Network Model training complete.

- 5. Model Results and Performance: Accuracy Score: 0.6667

Classification Report (Key Insights):

	precision	recall	T1-SCO
0	0.00	0.00	0.
1	1.00	0.67	0.
accuracy			0.
macro avg	0.50	0.33	0.
weighted avg	1.00	0.67	0.