```
import numpy as np
import pandas as pd
 # Example dataset
 data = {
    'Feature1': [10, 20, 30, 40, 50],
    'Feature2': [5, 15, 25, 35, 45]
}
 df = pd.DataFrame(data)
 print("Original Data:")
 print(df)
    Original Data:
        Feature1 Feature2
              10
                         5
                        15
     1
              20
     2
              30
                        25
     3
                        35
              40
              50
                        45
 def zscore_normalization(df):
    normalized df = df.copy()
    for column in normalized df.columns:
        mean = normalized_df[column].mean()
        std = normalized_df[column].std()
        normalized_df[column] = (normalized_df[column] - mean) / std
    return normalized df
 normalized_df = zscore_normalization(df)
 print("\nNormalized Data (Z-score):")
 print(normalized_df)
\rightarrow
     Normalized Data (Z-score):
        Feature1 Feature2
     0 -1.264911 -1.264911
     1 -0.632456 -0.632456
     2 0.000000 0.000000
     3 0.632456 0.632456
     4 1.264911 1.264911
```

Start coding or generate with AI.