

I after observing the dataset and results, here are some general observations and considerations

1. Dataset: The dataset contains both numeric and non-numeric columns. The code selects the numeric columns for normalization and subsequent model training. So, important to ensure that the selected numeric columns are meaningful and relevant for the task at hand.
2. Model Architecture: The model used here is 1D Convolutional Neural Network (CNN) model. This type of model is commonly used for sequence-based data or time-series analysis, where neighboring data points are assumed to have spatial correlations. The model consists of convolutional layers followed by max pooling, flattening, and fully connected layers. The final layer uses a sigmoid activation function, indicating that the model is trained for a binary classification task.
3. Training and Evaluation: Normalized data into training and testing sets using an 80:20 ratio. Then trains the model on the training data and evaluates its performance on the testing data. The model is compiled with the binary cross-entropy loss function and the Adam optimizer, commonly used for binary classification tasks. The training is performed for 10 epochs with a batch size of 16.