Feed Forward Neural Network

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Problem Statement

 Implement a simple feed-forward neural network model for the loan dataset and then evaluate the performance on a 80/20 split. Exclude irrelevant columns and perform one-hot encoding and normalization of each column, if needed.

Feed Forward Neural Network

- Neurons Feed forward neural networks consist of artificial neurons that take inputs and produce outputs through a series of weighted connections.
- Training The model is trained with gradient descent, which adjusts the weights and biases to minimize the error between predicted and actual values.
- Generalization The goal is to achieve good generalization to unseen data, avoiding overfitting by using regularization, dropout, and early stopping.



Results

```
model = MLPClassifier()
model.fit(X_train, y_train)

accuracy = model.score(X_test, y_test)

print(accuracy)

D 0.7037037037037037
```

