

Image data set

Dataset name : STL10

Dataset classes

1. airplane
2. bird
3. car
4. cat
5. deer
6. dog
7. horse
8. monkey
9. ship
10. truck

Data samples



Image size 96x96

Number of columns : 13000

Train data : 5000

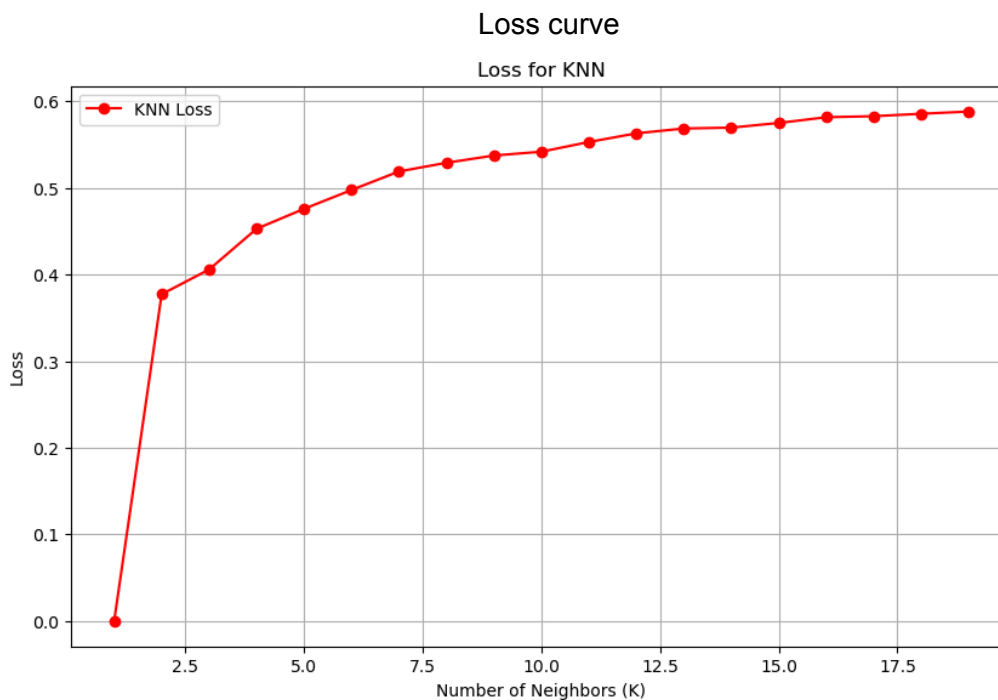
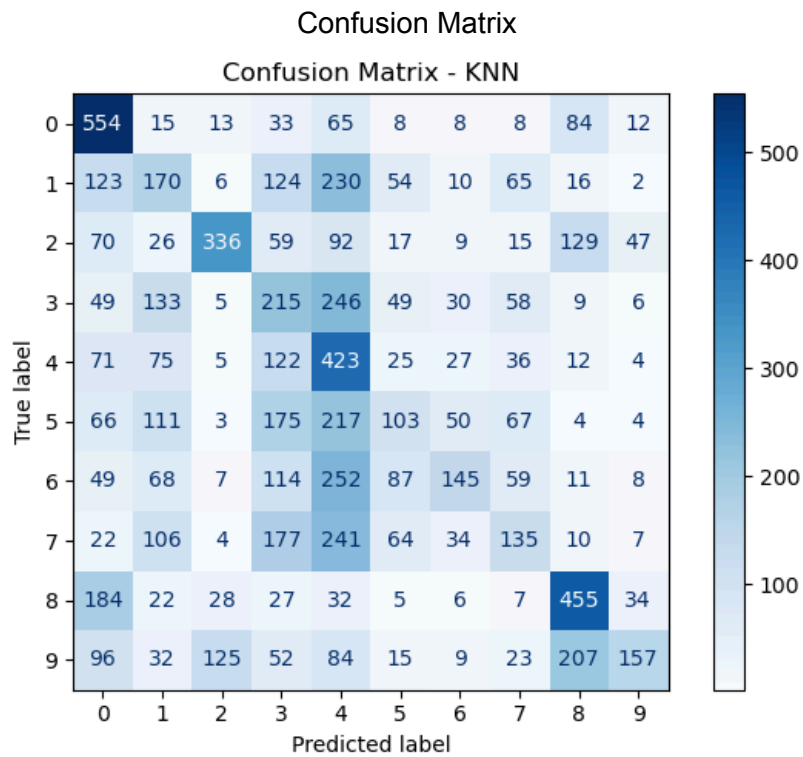
Test data : 8000

We made two models

1. Logistic Regression model
2. KNN model

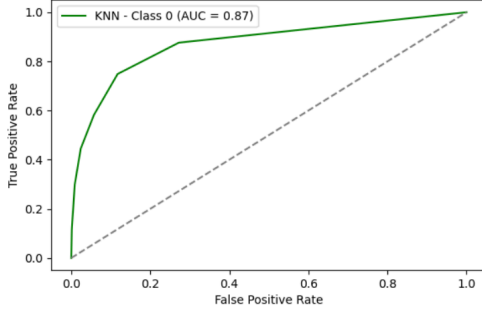
KNN Model

Accuracy: 0.34

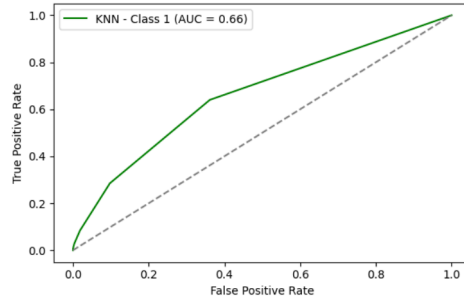


ROC Curve

ROC Curve - Class 0

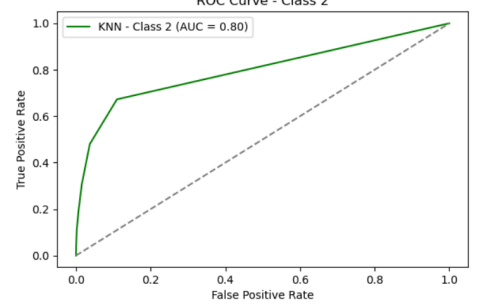


ROC Curve - Class 1

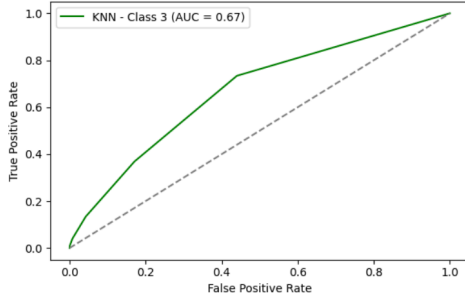


False Positive Rate

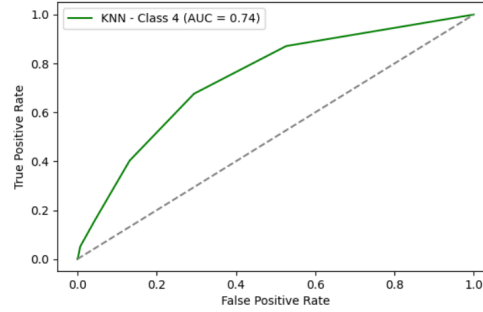
ROC Curve - Class 2



ROC Curve - Class 3

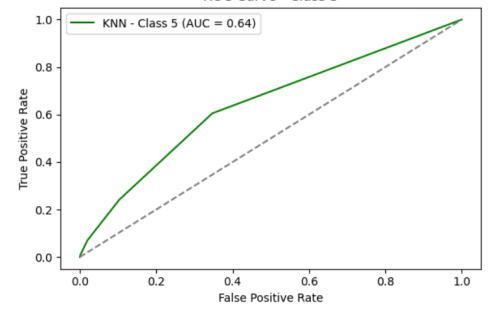


ROC Curve - Class 4

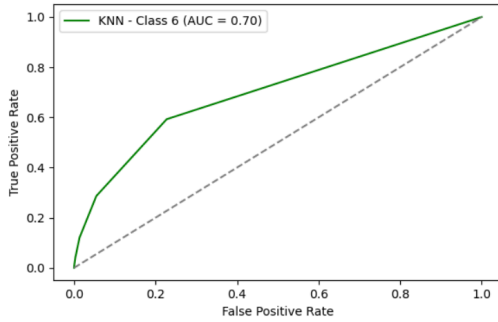


False Positive Rate

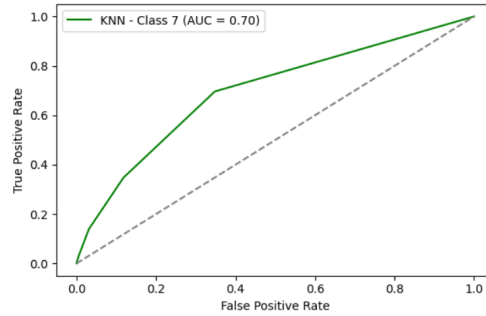
ROC Curve - Class 5



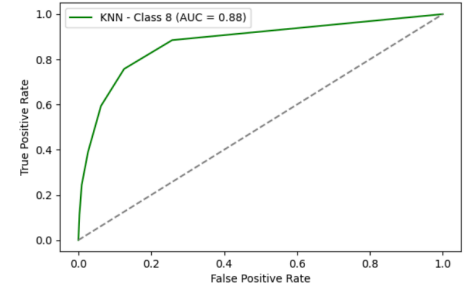
ROC Curve - Class 6



ROC Curve - Class 7

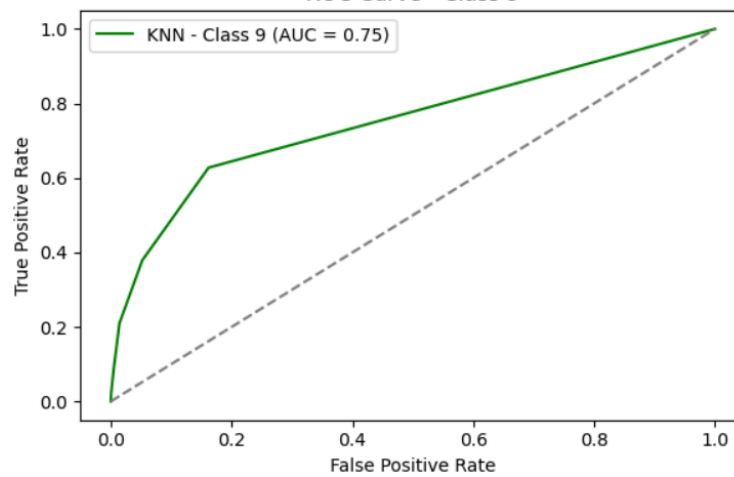


ROC Curve - Class 8



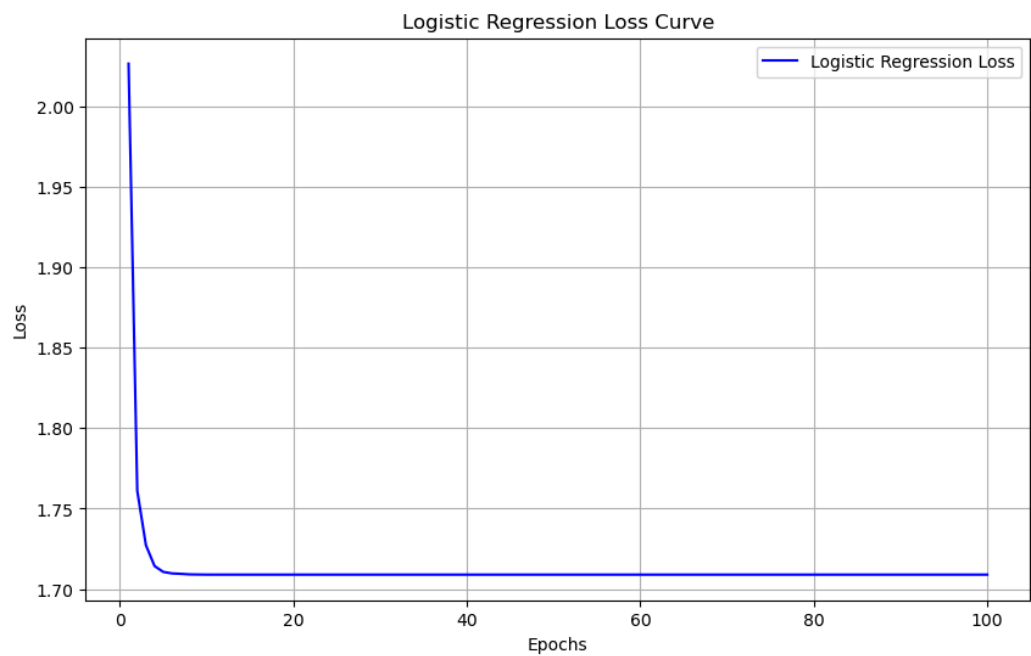
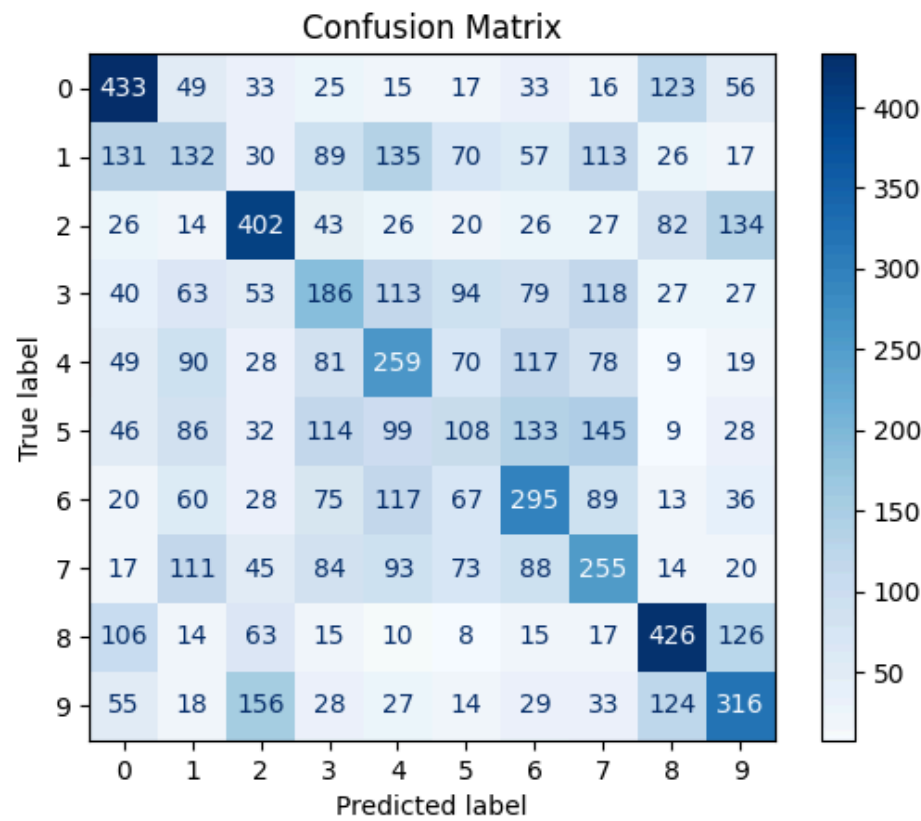
False Positive Rate

ROC Curve - Class 9

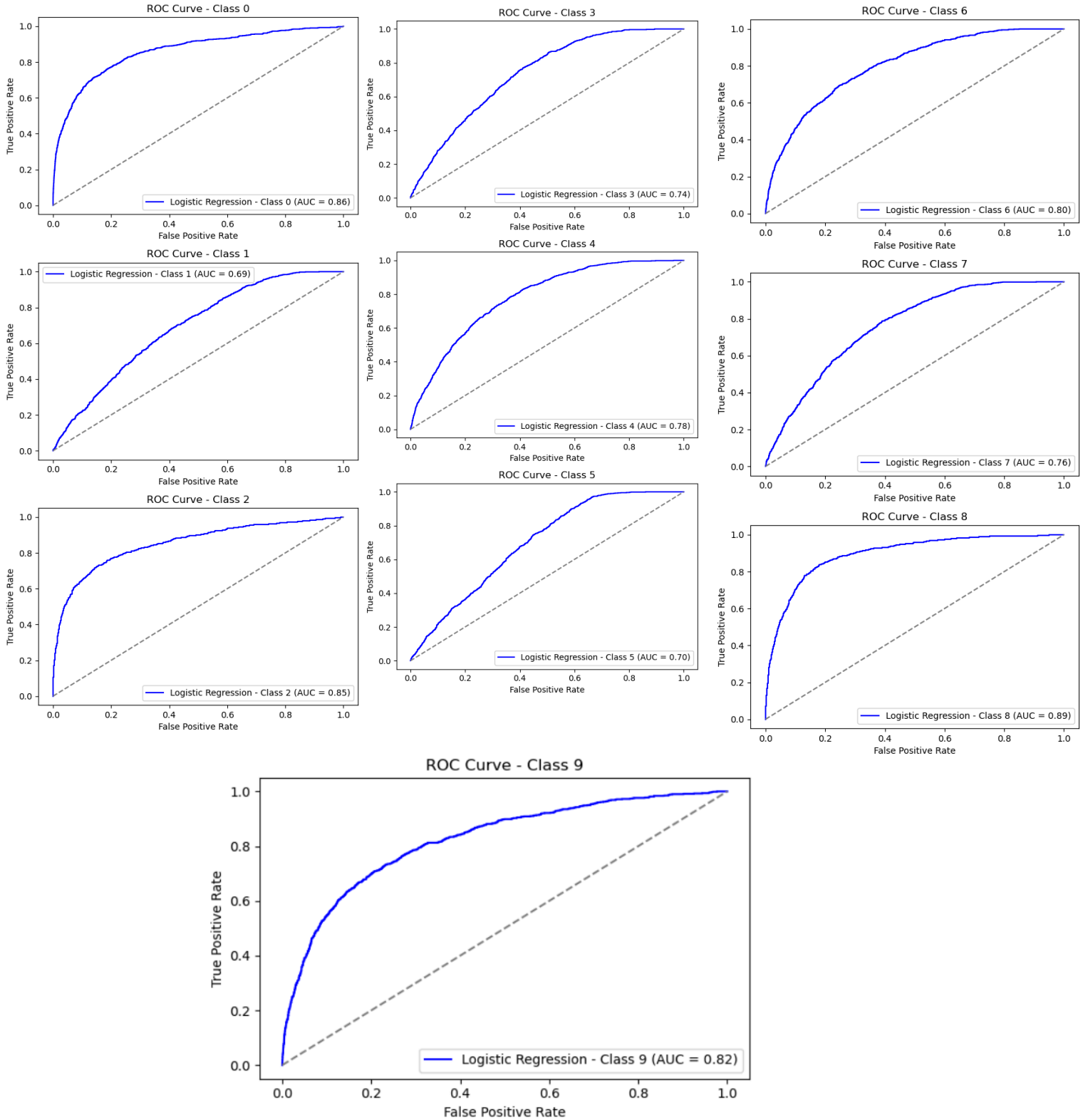


Logistic Regression model

Accuracy: 0.35



Loss curve



And now we can say Logistic Regression model is better