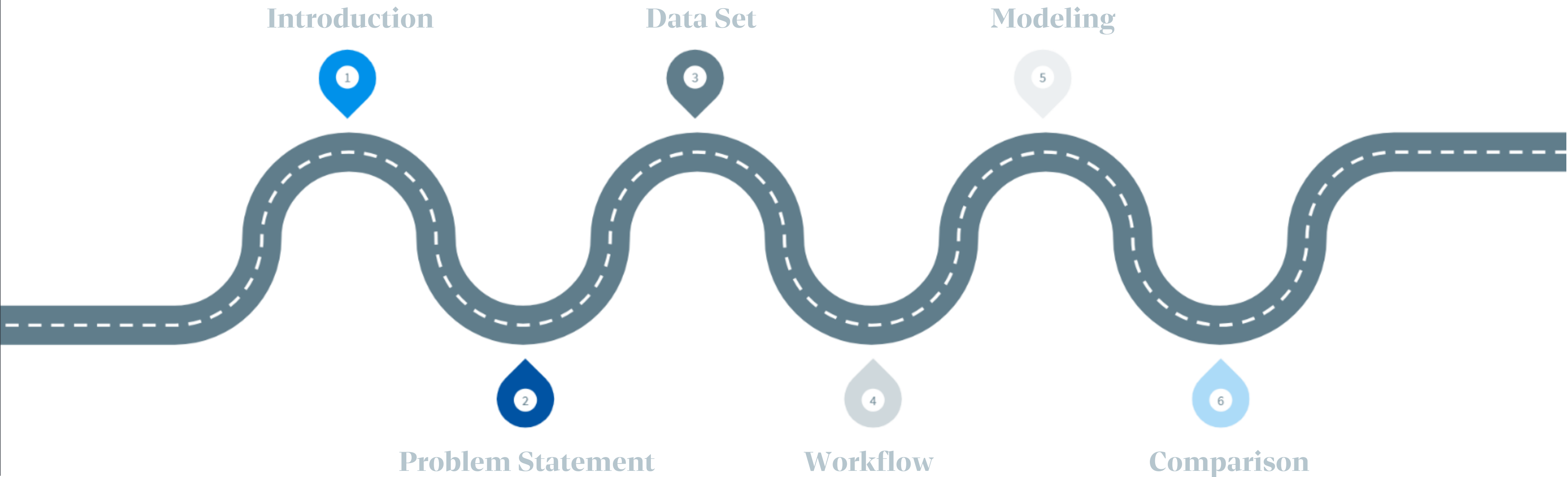


Classification Analysis of Mushrooms For California Garden



Outline



Introduction

A person filed a case against California Garden Company because he ate canned poisonous mushrooms. The company lost the case and compensated the client with a huge amount of money and incurred many losses. From here, I decided to seek help from a Data scientist so as not to make the same mistake and lose.



Problem Statement

classification of mushrooms, whether edible or poisonous based on other features .

Data Set

Kaggle

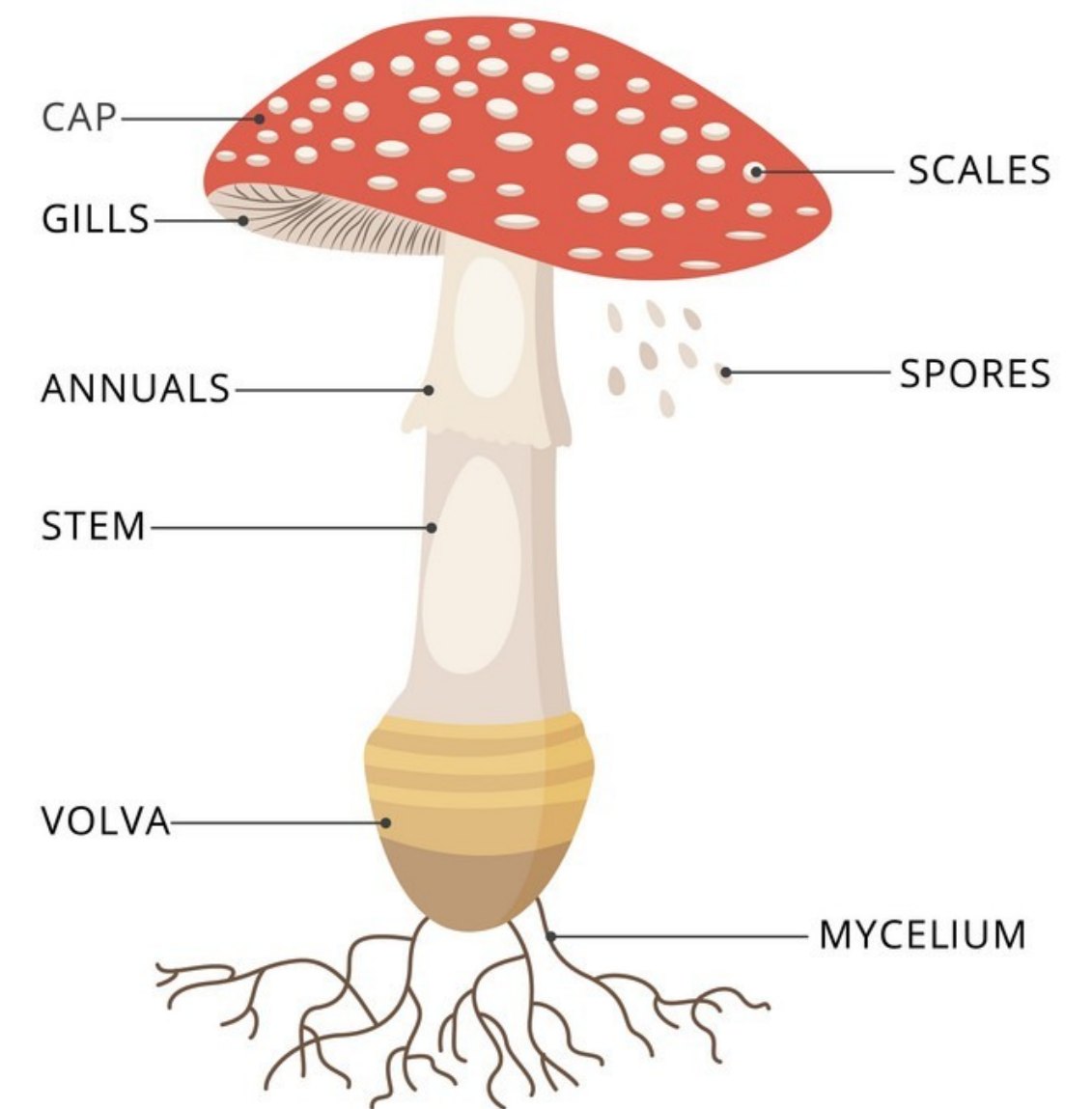
8125

observation

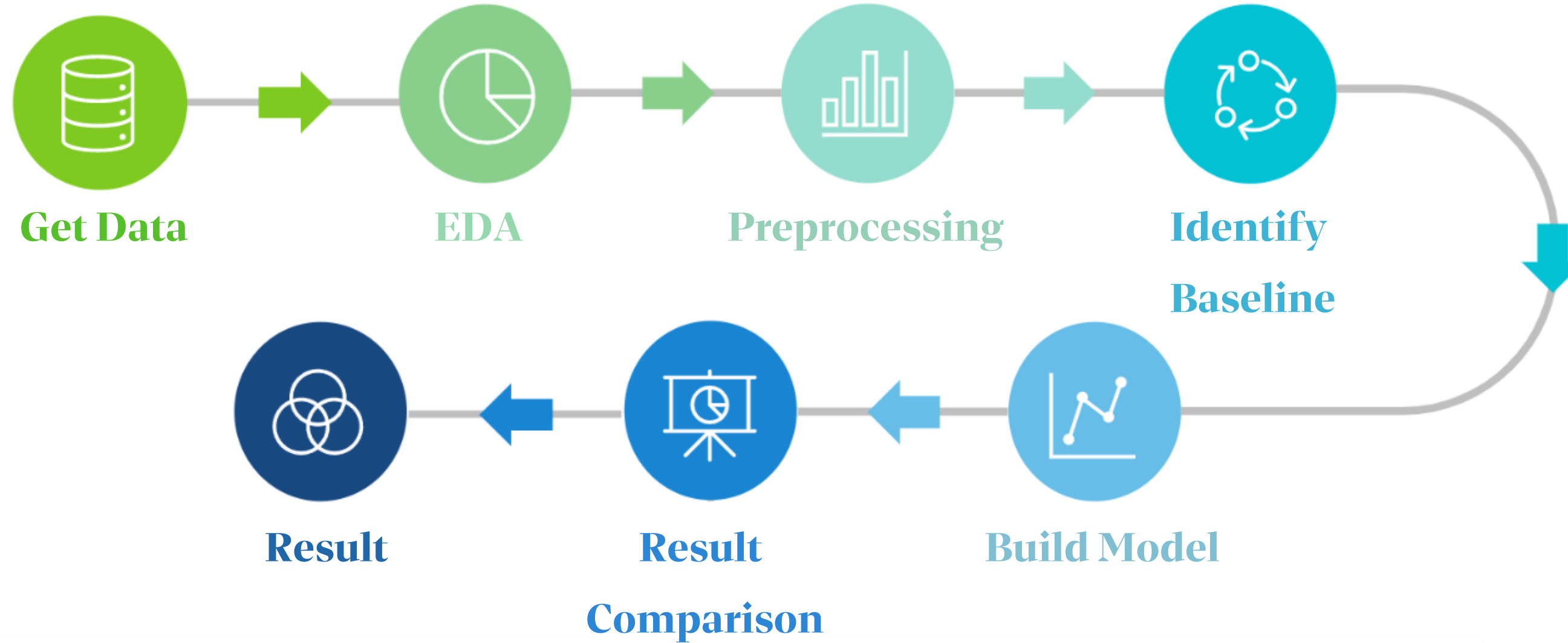
23

features

FLY AGARIC ANATOMY



Workflow



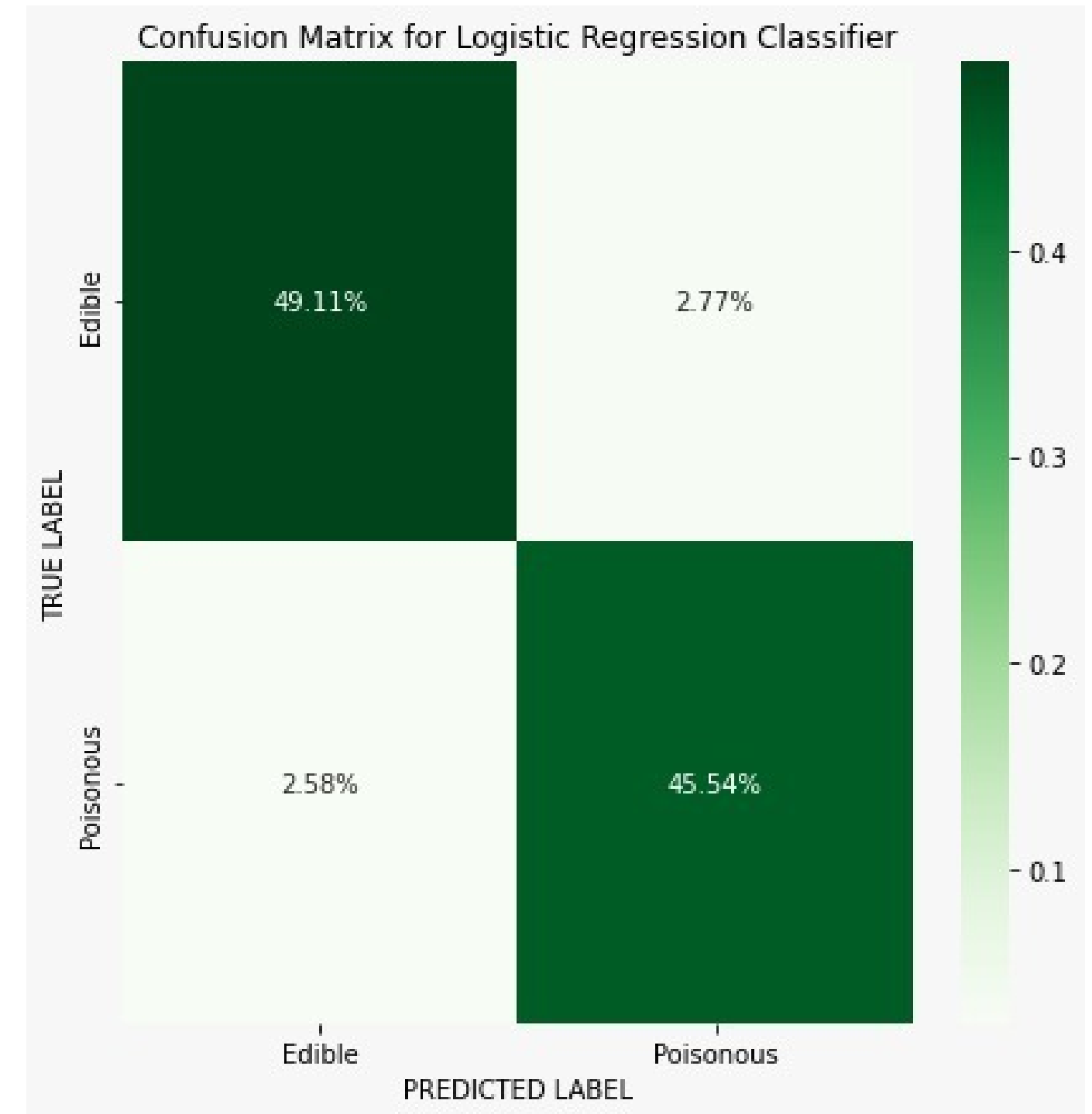
Modeling



Logistic Regression

ACCURACY: 0.9464615384615385

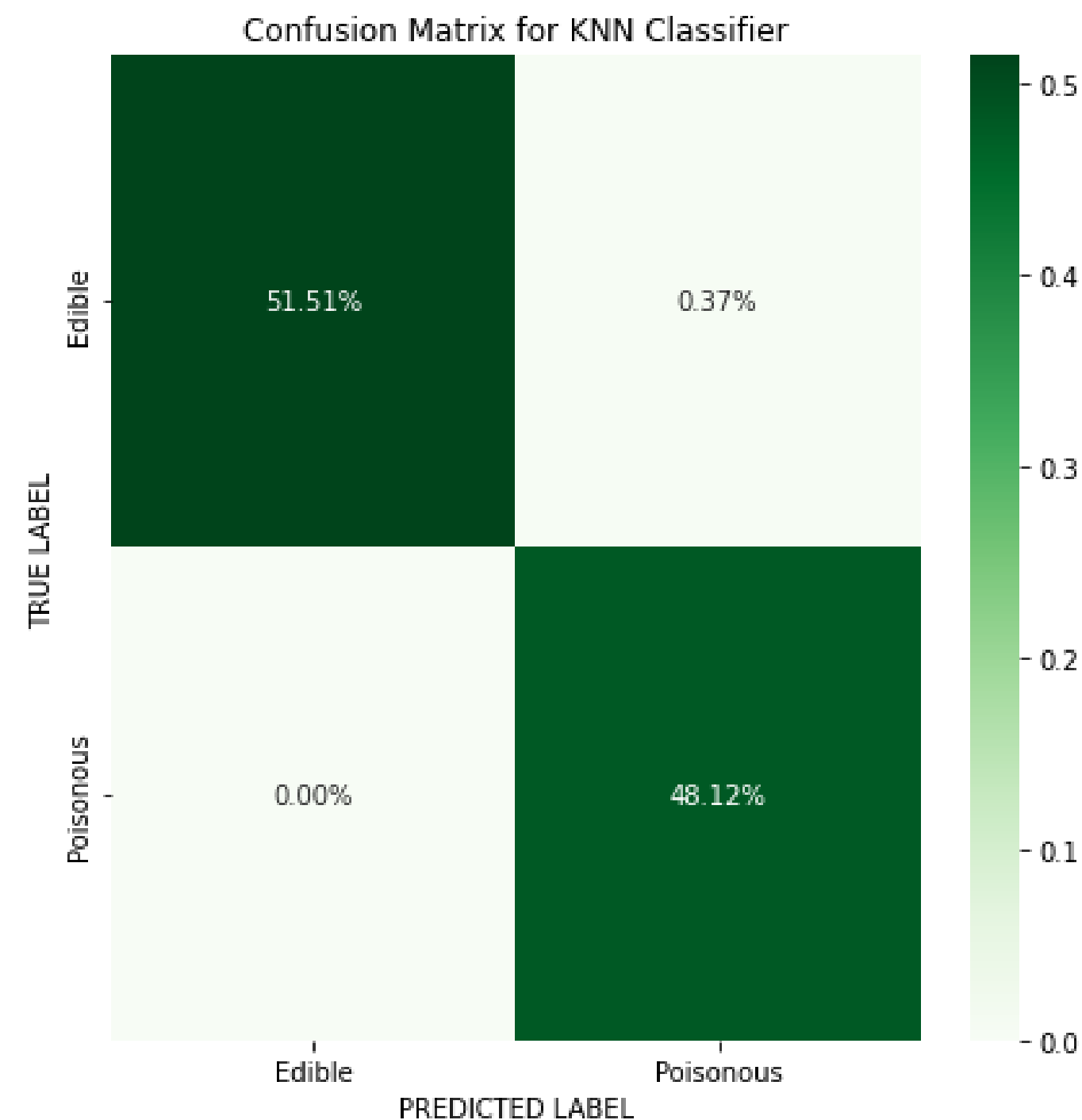
RECALL: 0.9462915601023018



KNN (K-nearest neighbors)

ACCURACY: 0.9963076923076923

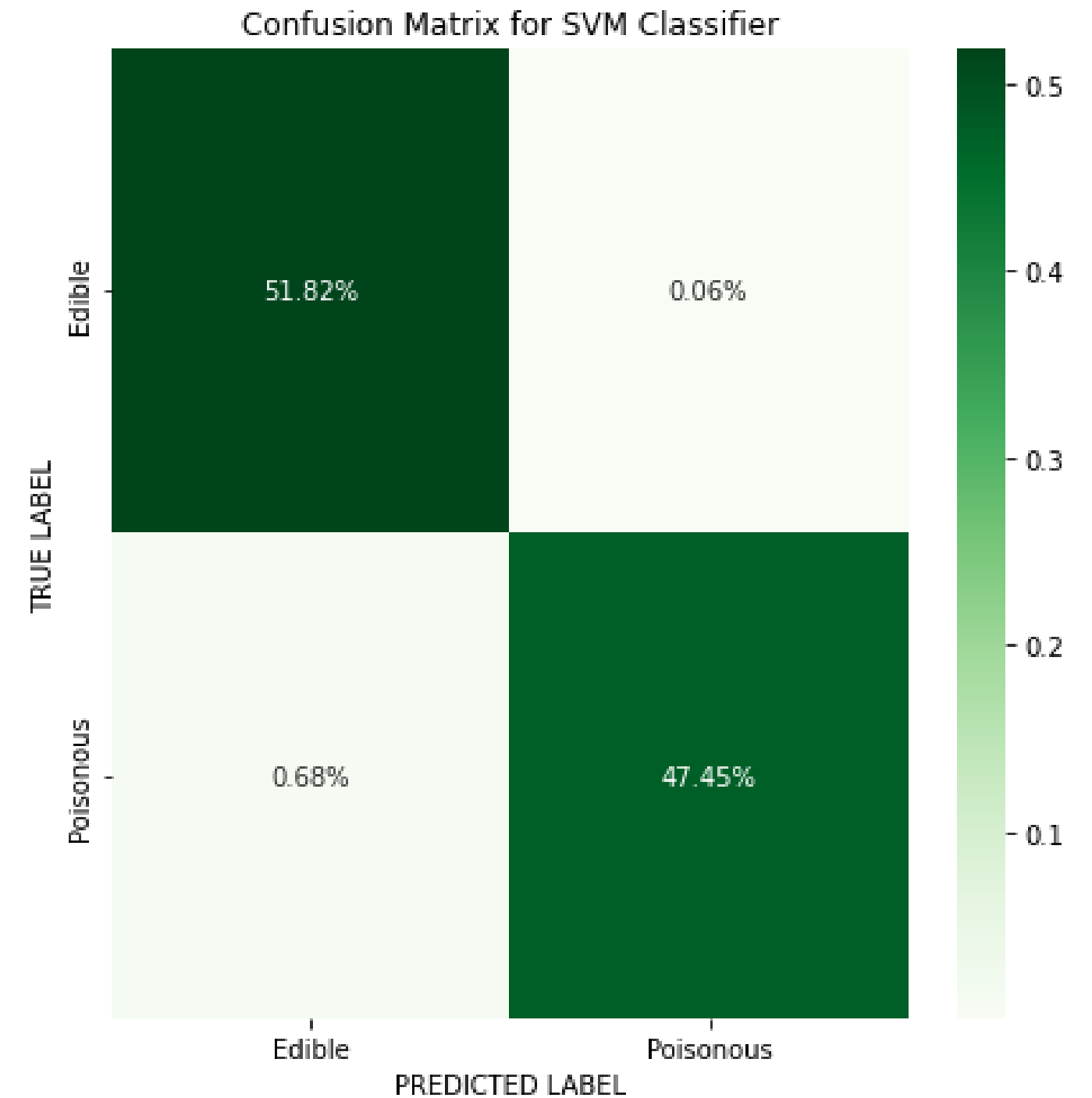
RECALL: 1.0



SVM (Support Vector Machine)

ACCURACY: 0.9926153846153846

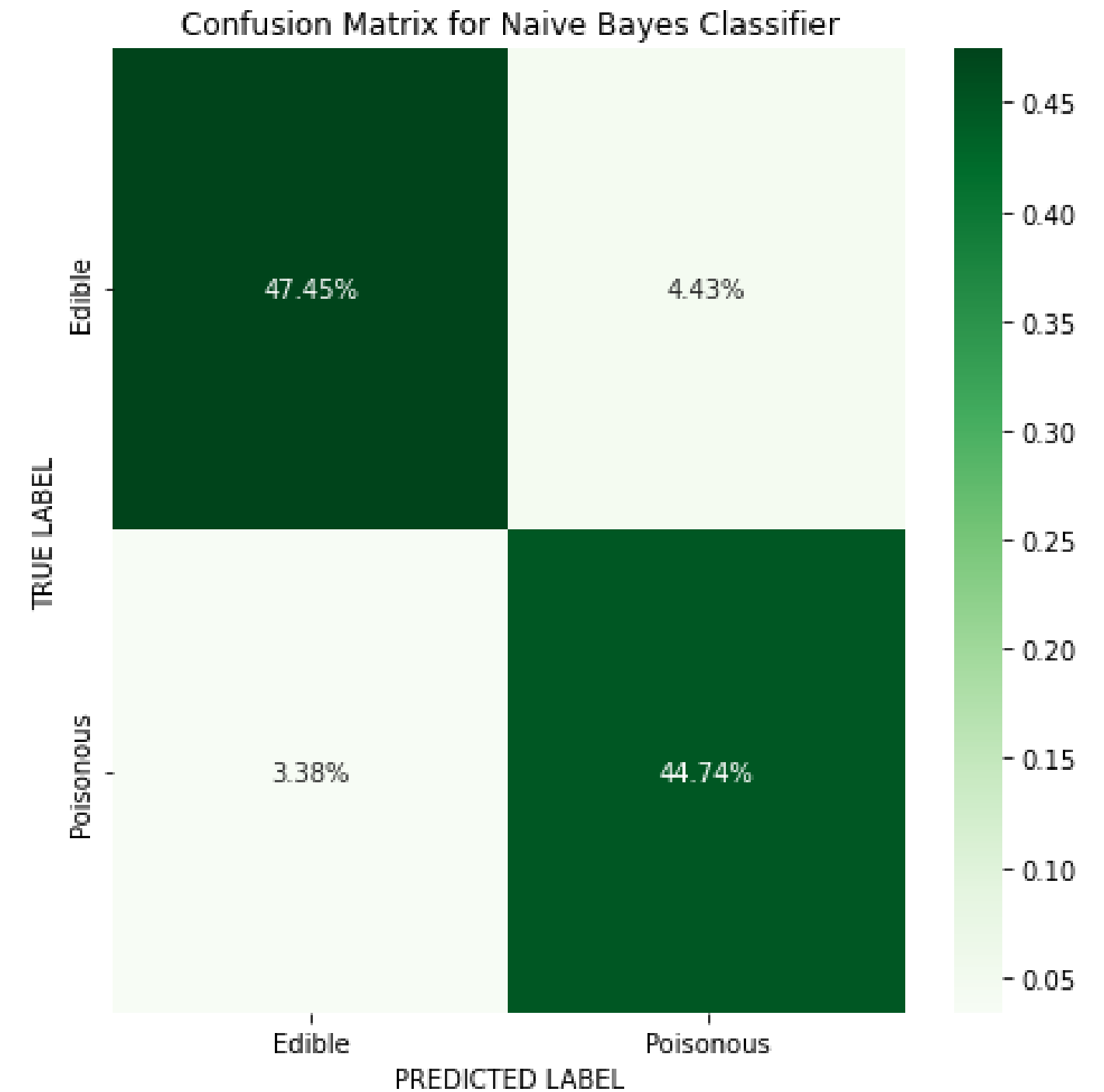
RECALL: 0.9859335038363172



Naive Bayes

ACCURACY: 0.9218461538461539

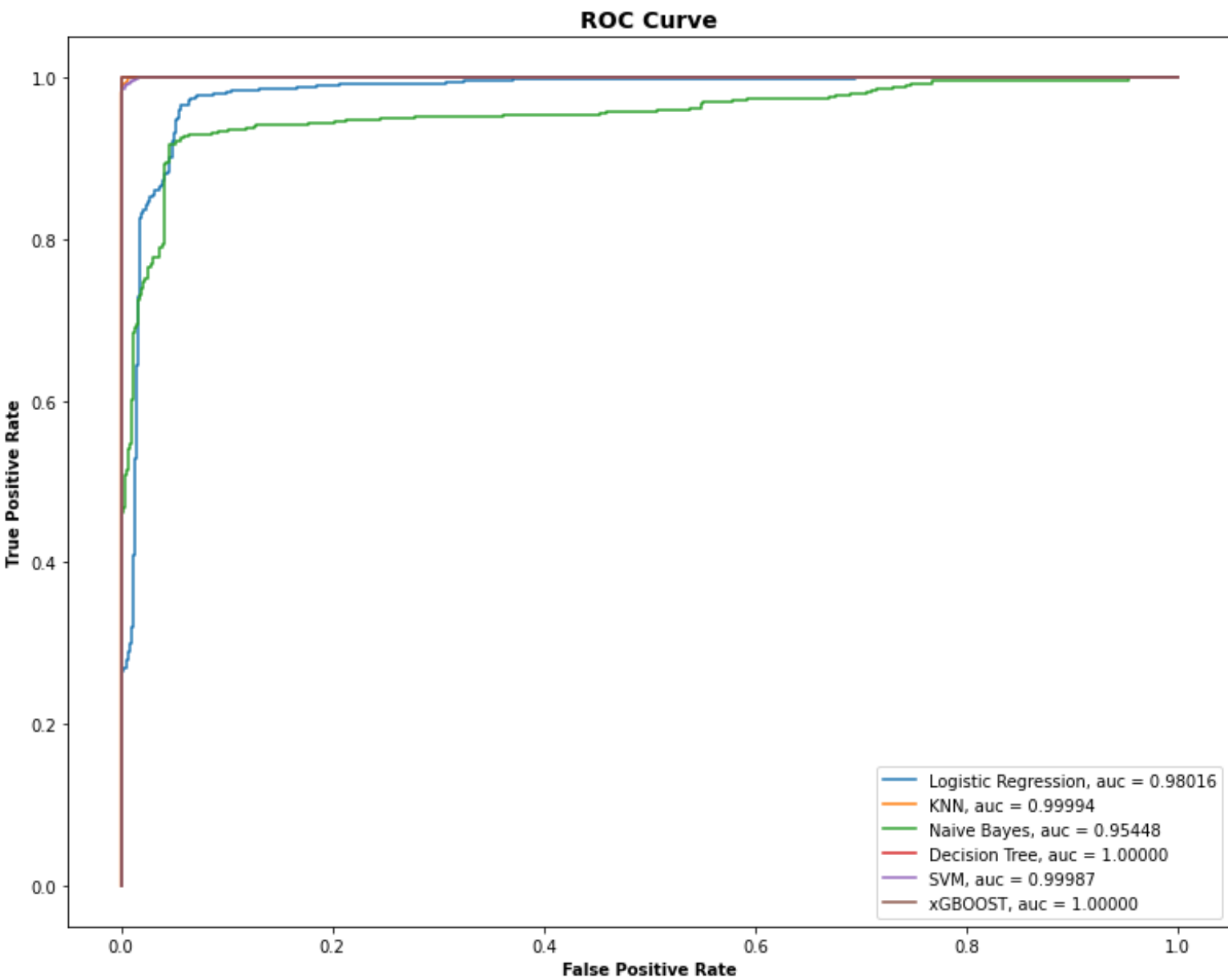
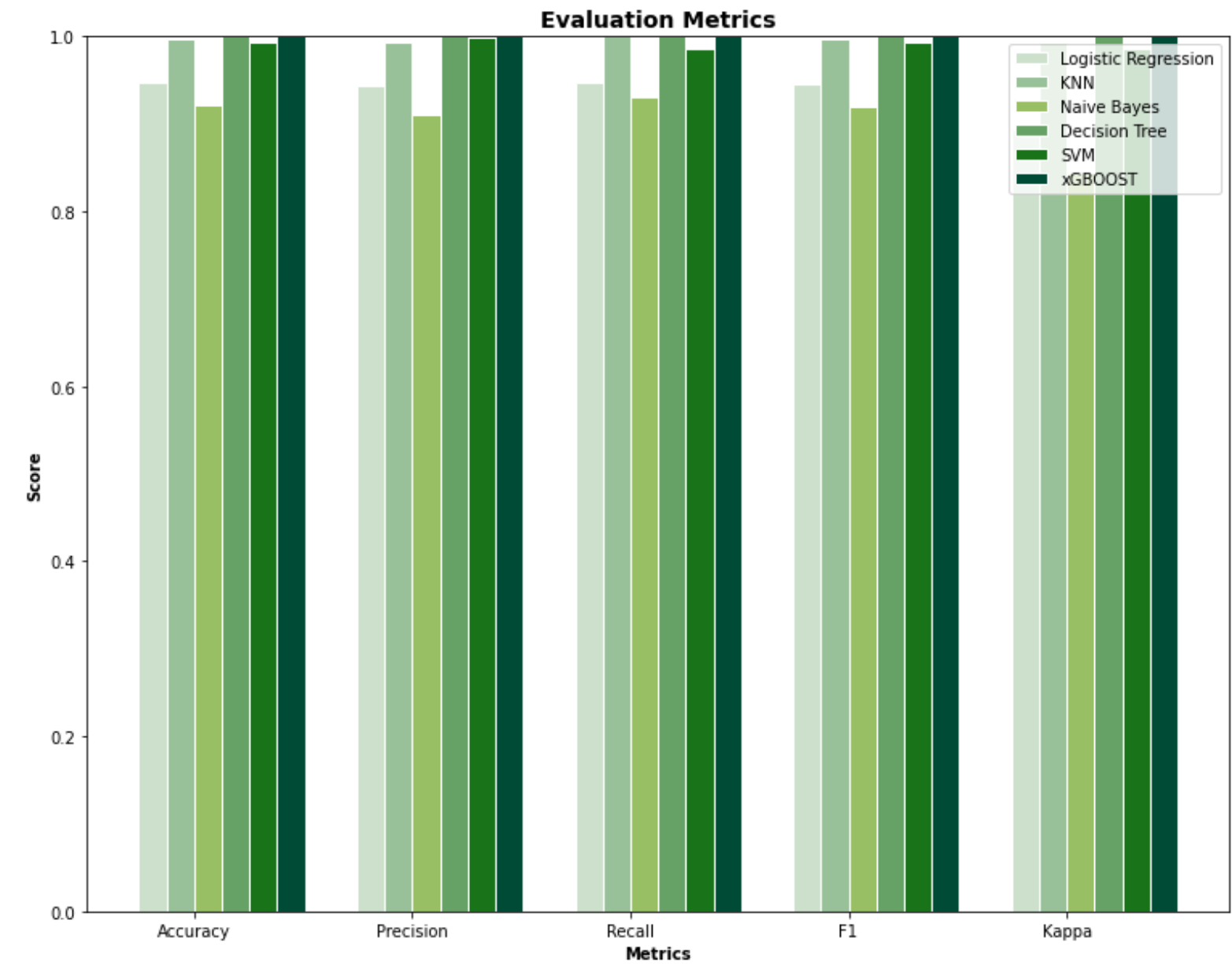
RECALL: 0.9296675191815856



Comparison



Model Comparison



Conclusion



Thank you for listening

prepared by:

Tamader AboAlhassan , Afrah Almoutiri , Moneera Alfulaij

