Problem: The problem that this model solves is to predict whether a customer will churn.

Data: The data used to train this model is a customer dataset that I’ve been provided with information about CustomerID, Age, Name, Gender, Subscription length, Location, Monthly bill, Total GB usage.

Features: The features of the data include CustomerID, Age, Name, Gender, Subscription length, Location, Monthly bill, Total GB usage. I have removed the unimportant features.

Target variable: The target variable is whether or not the customer churned.

Algorithm: The machine learning algorithm that was used is a support vector machine (SVM) model. SVM is a supervised learning algorithm that can be used for classification and regression tasks. SVM works by finding a hyperplane that best separates the data into two classes. And the kernel I have used is rbf for better classification.

Training process: The data was split into a training set (77%) and a testing set (33%). The training accuracy was around 87% and the validation accuracy was 90%.

Model performance: The model achieved an accuracy of 100% on the test set. And the features had no outliers as well.

Limitations: The model could be improved by using a larger dataset and by tuning the hyperparameters of the algorithm.