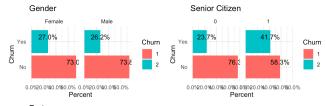
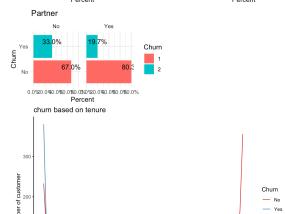
Telco Customer Churn Analysis

Introduction

Dataset: https://www.kaggle.com/blastchar/telco-customer-churn

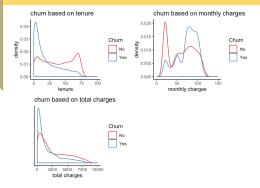
- Customer churn occurs when customers stop doing the business with a company or stop using a company's service
- By conducting exploratory analysis on the churn data, we can help the company understand customer behaviors and help identify strategies for improvement
- The development of machine learning algorithm helps company uncover key features which signal the risk and timing of customer churn

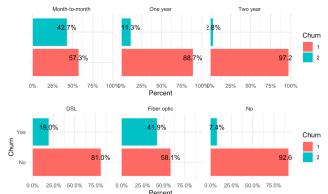




Exploratory Analysis

- Density plot and correlation plot for numerical features
- Churn customers is a tendency of Paperless billing; Payment via Electronic Check; Month-to-Month Contract; Fibre Optic medium of Internet Service;





Decision Tree Model For Churn Prediction

- Split the dataset into training data and testing data; p=0.8
- Training data for making model; Use rpart.plot function for presenting the trees
- Testing data for validation; Accuracy is 0.79
- Visualize ROC curve for the model; AUC is 0.80

