



# Telco Customer Churn Analysis

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# Business Case

- The purpose of this project is to predict Customer Churn using the Telco Customer Churn Data Set
- Churn is defined as the percentage of customers who's business you lost during a set period of time. It can be calculated by dividing the amount of customers lost by the total number of customers you had at the beginning of this time frame.

# Business Value

- It is easier and cheaper to retain a current customer than it is to acquire a new customer

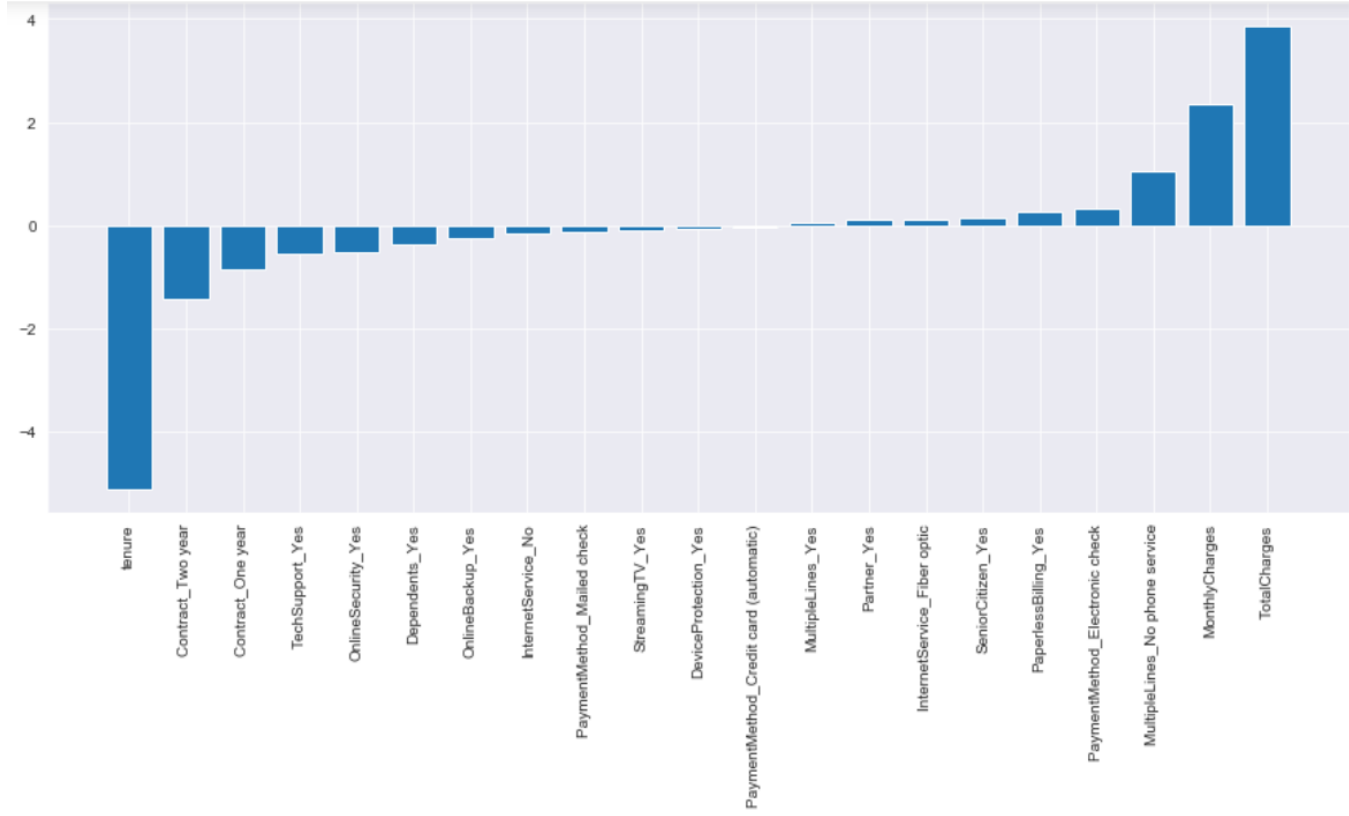
# Goals

- Identify the most predictive features for Customer Churn
- Provide business recommendations on how to reduce Customer Churn
- Create a model that maximizes recall score because for this business case False Negatives are a bigger problem than Precision of the model

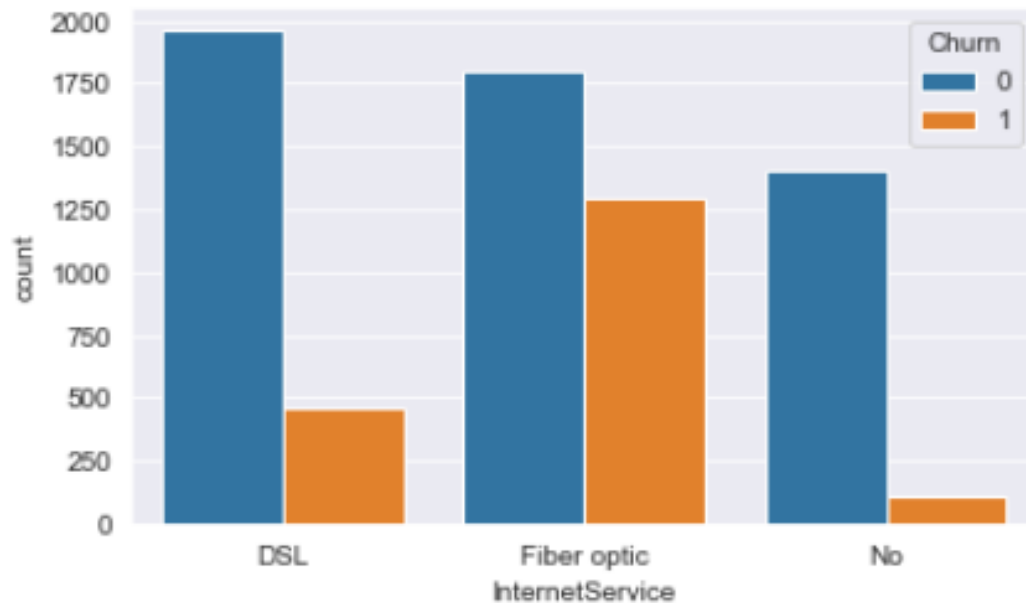
# DataSet

- This data set is available through the Kaggle link below:
- <https://www.kaggle.com/blastchar/telco-customer-churn>

# Predictive Features

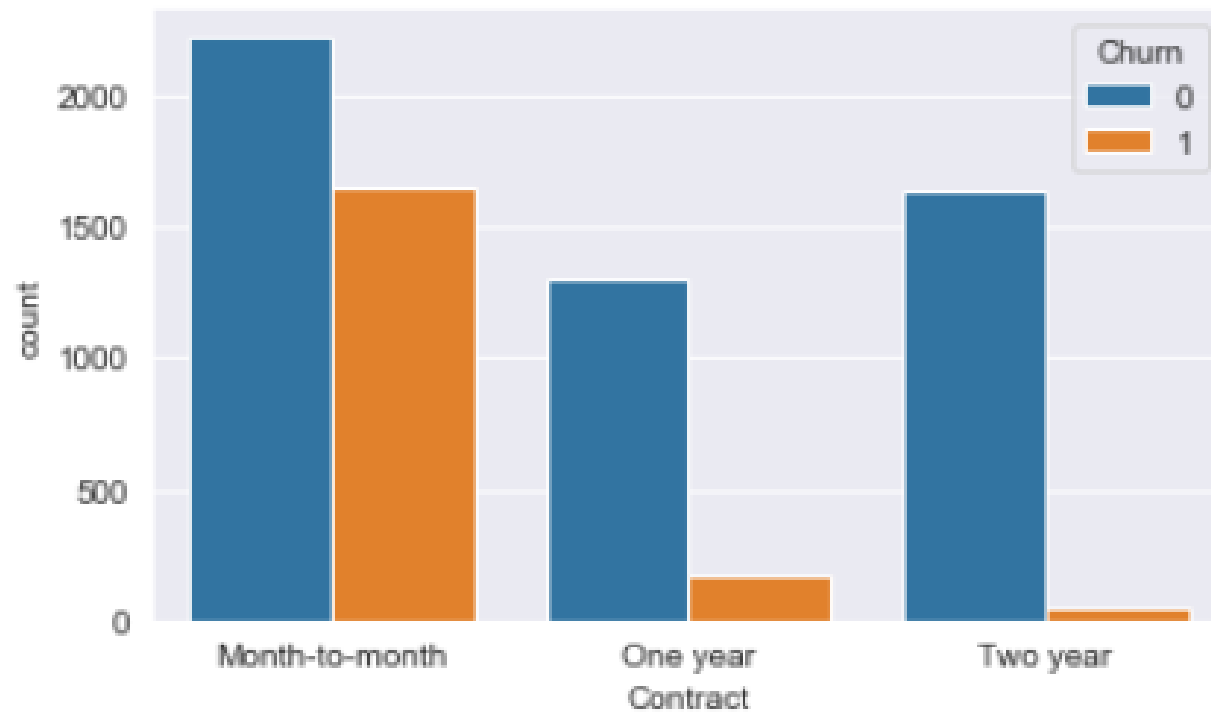


# Recommendation #1



- Increase quality of the Fiber Optic Internet service

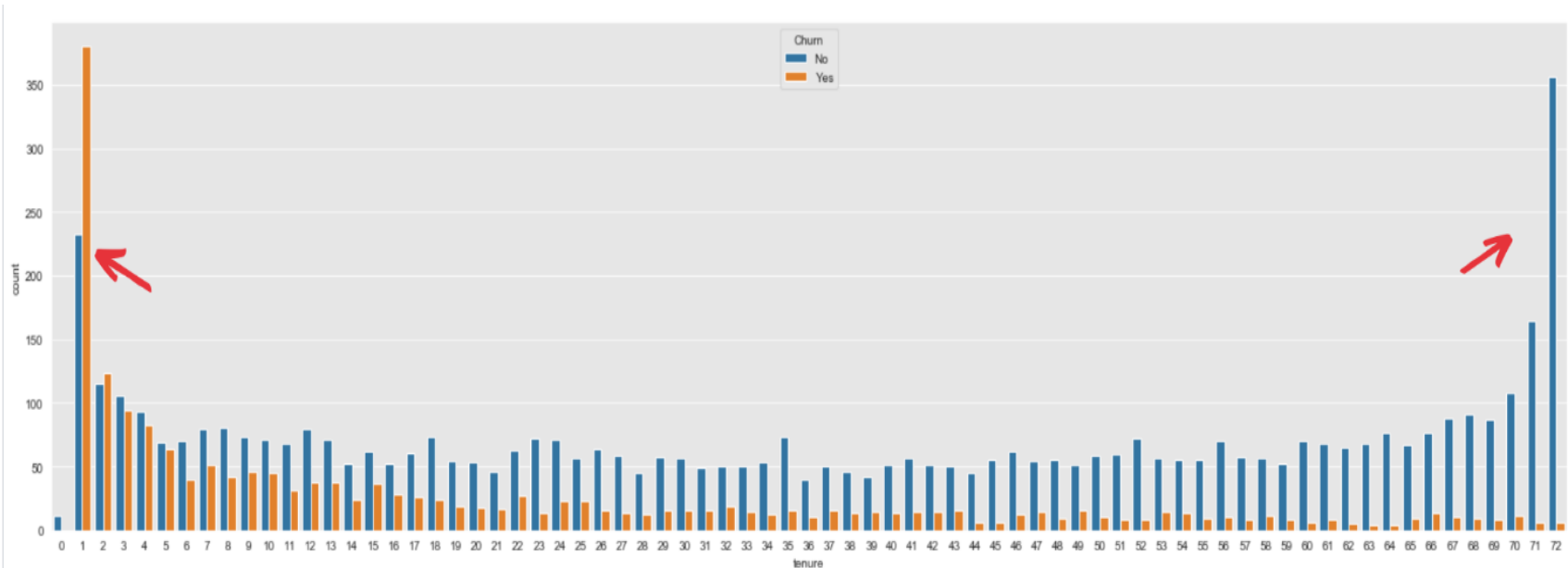
## Recommendation #2



- Try to sign customers up for yearly contracts



# Recommendation #3



- Provide loyalty promotions to customers to show appreciation for their tenure

# Model Use

- Model was able to predict customer churn with a 75% accuracy
- Input customer data to predict whether they will churn
- Focus retention efforts on customers that are predicted to churn through promotional offers

# Future Work

- Survey Customers on how they rate each service, providing a discount on service to increase participation
- Gather Customer location data to see if service is worse in certain areas
- Try out more models to improve accuracy



# THANK YOU

- Questions?