

Customer Churn

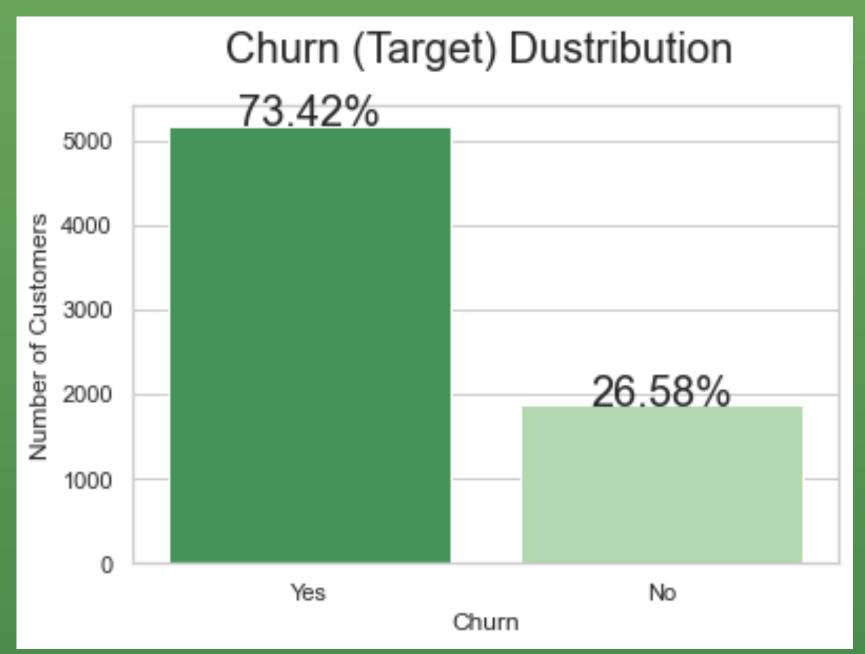
Prediction
Using Machine Learning



Problem Statement:

Customers churn affects the length of service and the future revenue of the

company.



LONG COOPERATION -STABLE INCOME





Business Goal:

Reducing and prevent customers churn:

- •get to know telecom customers better
- •target clients
- •special deals before they even thought of leaving



PREDICT CUSTOMER CHURN USING DATA

Methodology:

DATA PREPROCESSING (OBTAIN & SCRUB)

EDA & FEATURE ENGINEERING

ALGORITHM SELECTION

TRAINING

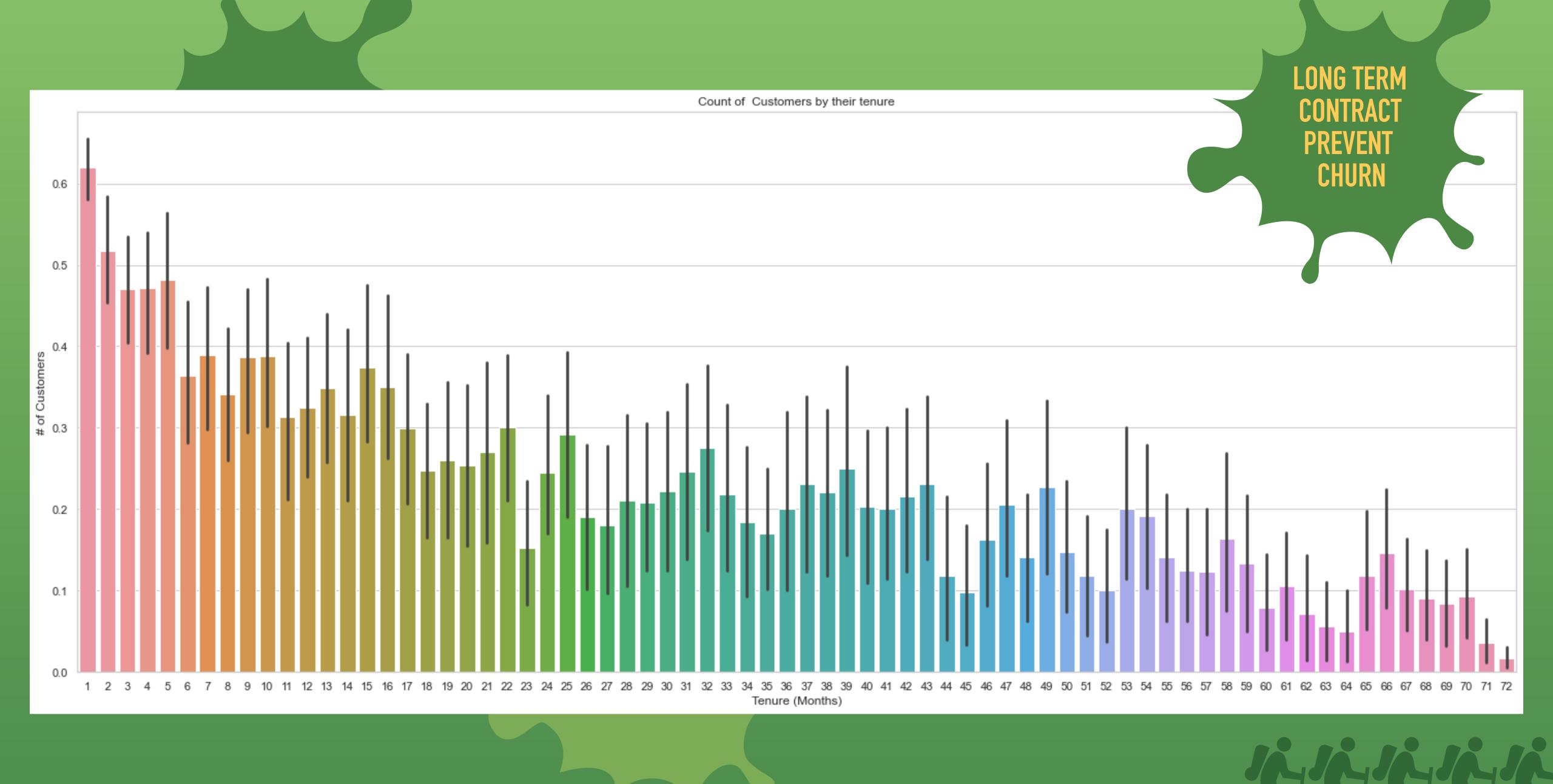
EVALUATE

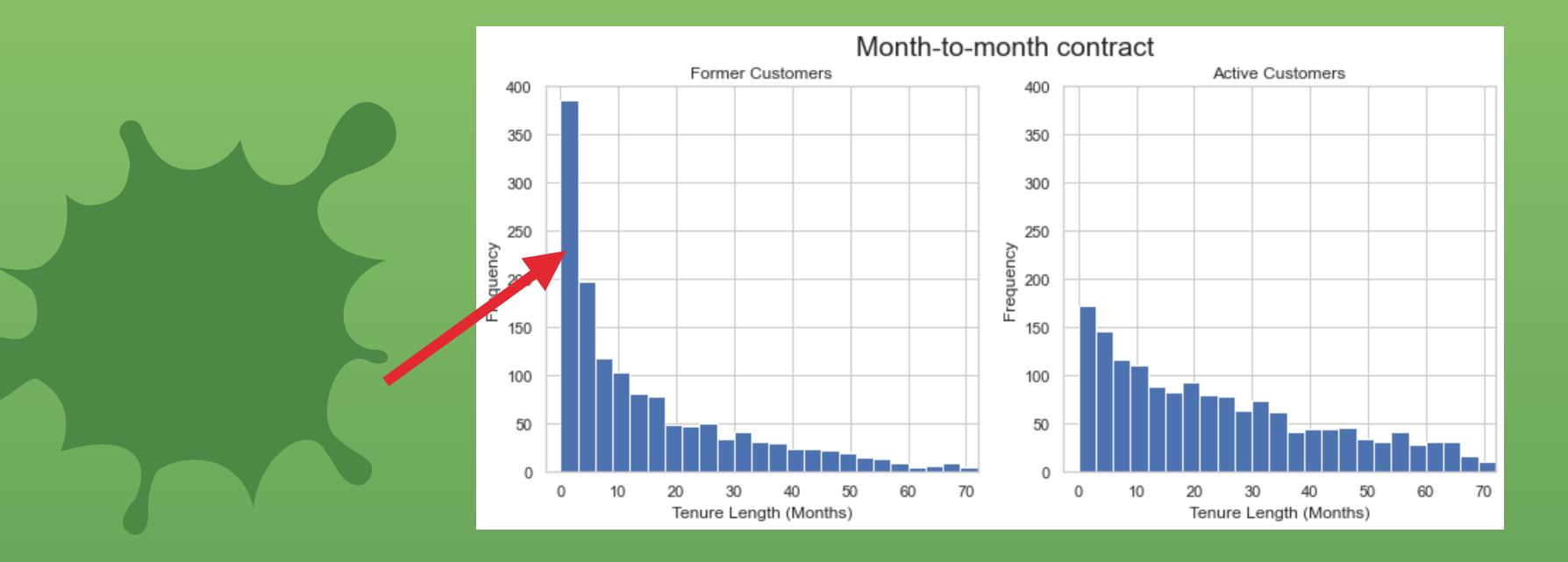


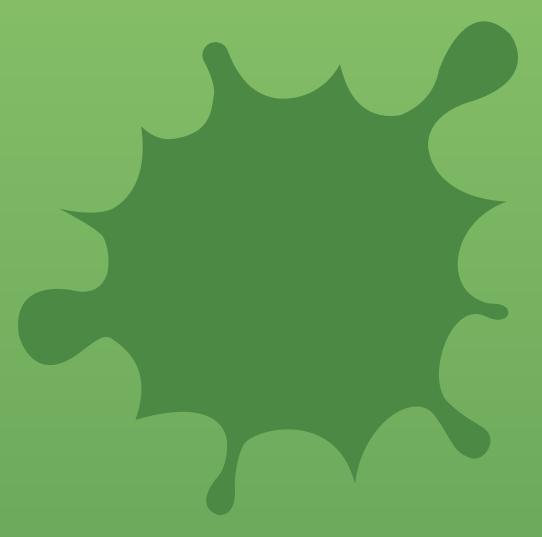


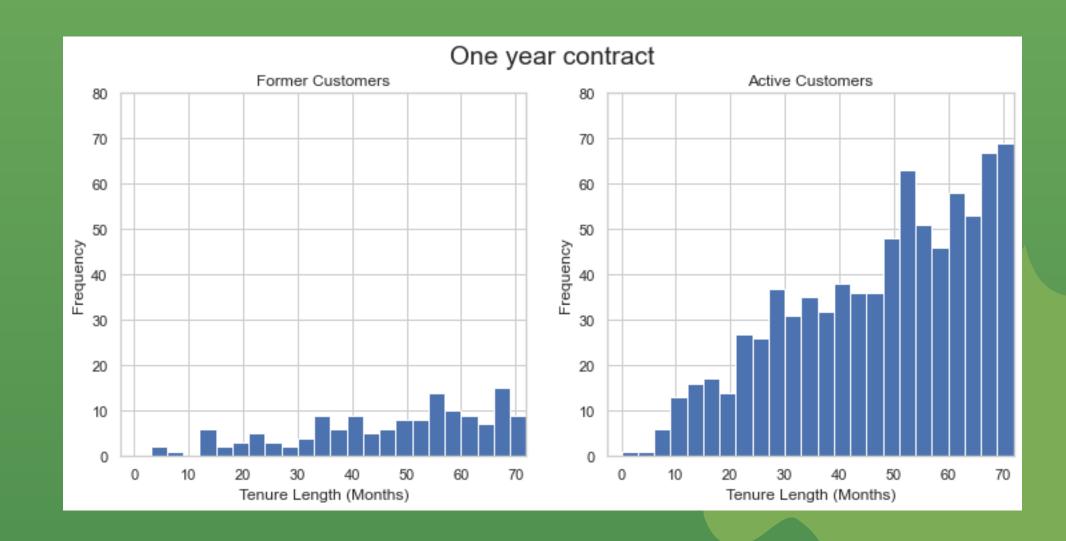


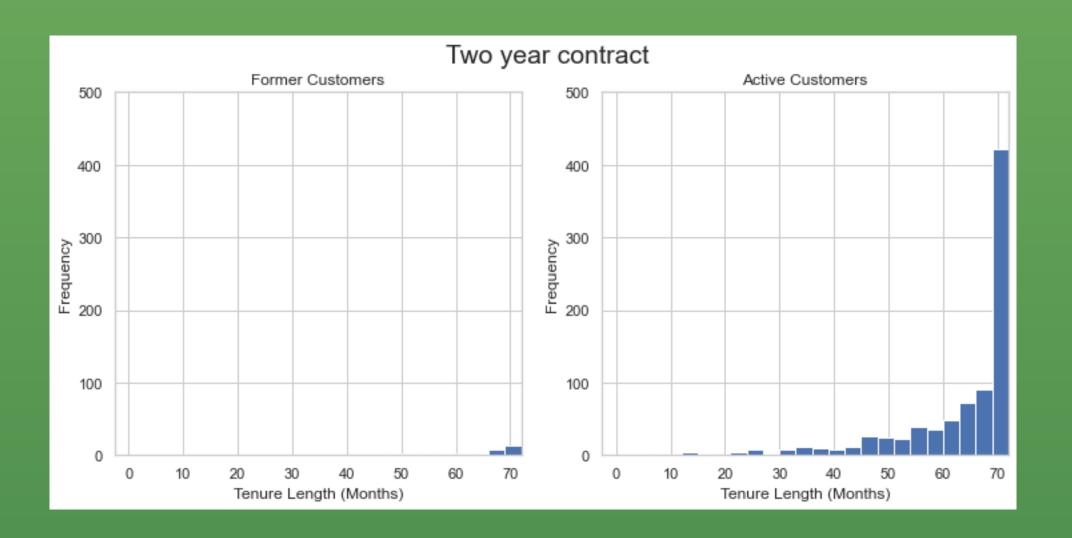
- ✓ Services that each
 customer has signed up
 for (internet, phone,
 TV)
- /Customer account
 information (tenure,
 contract, monthly and
 total payment method)

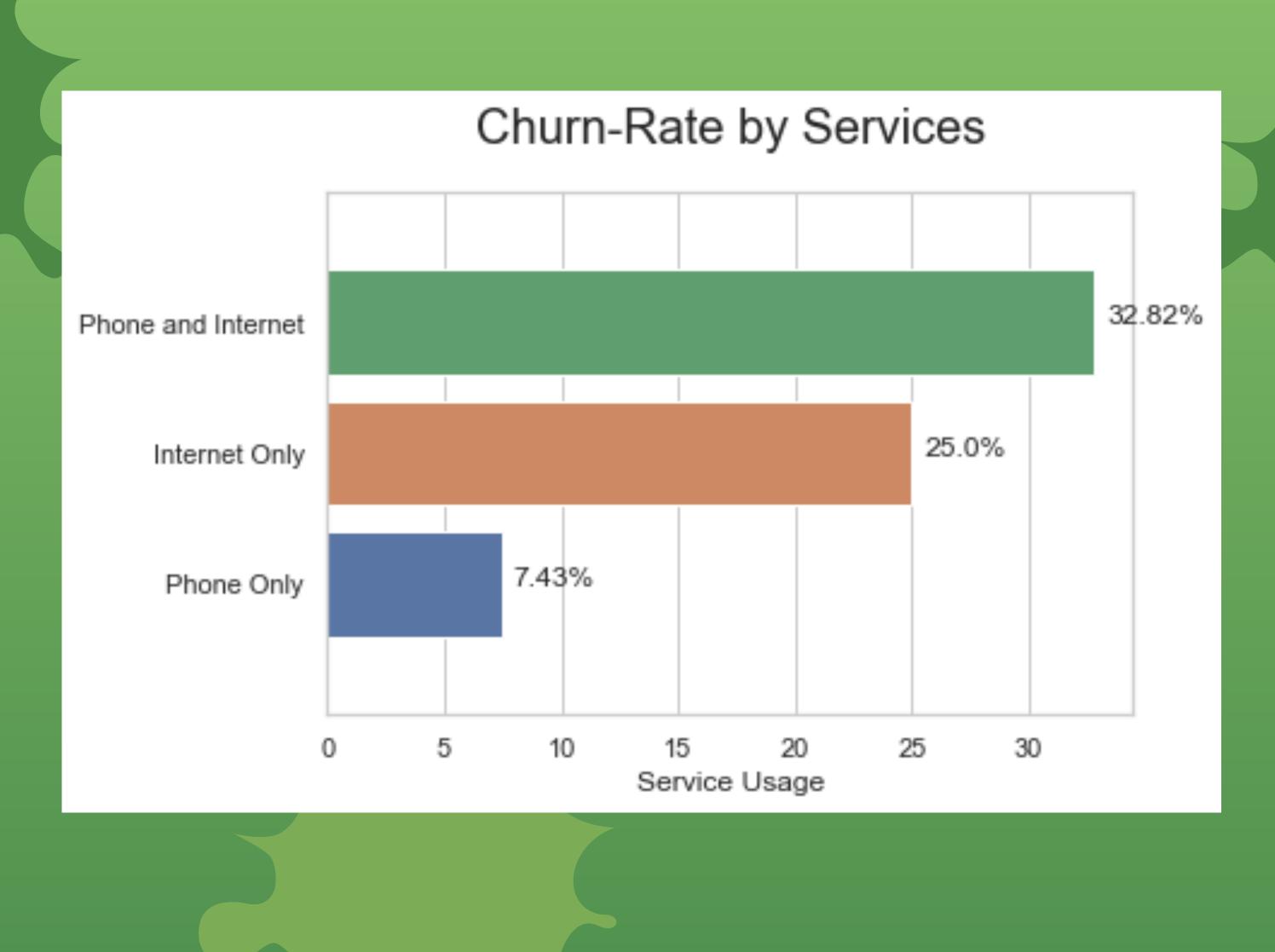












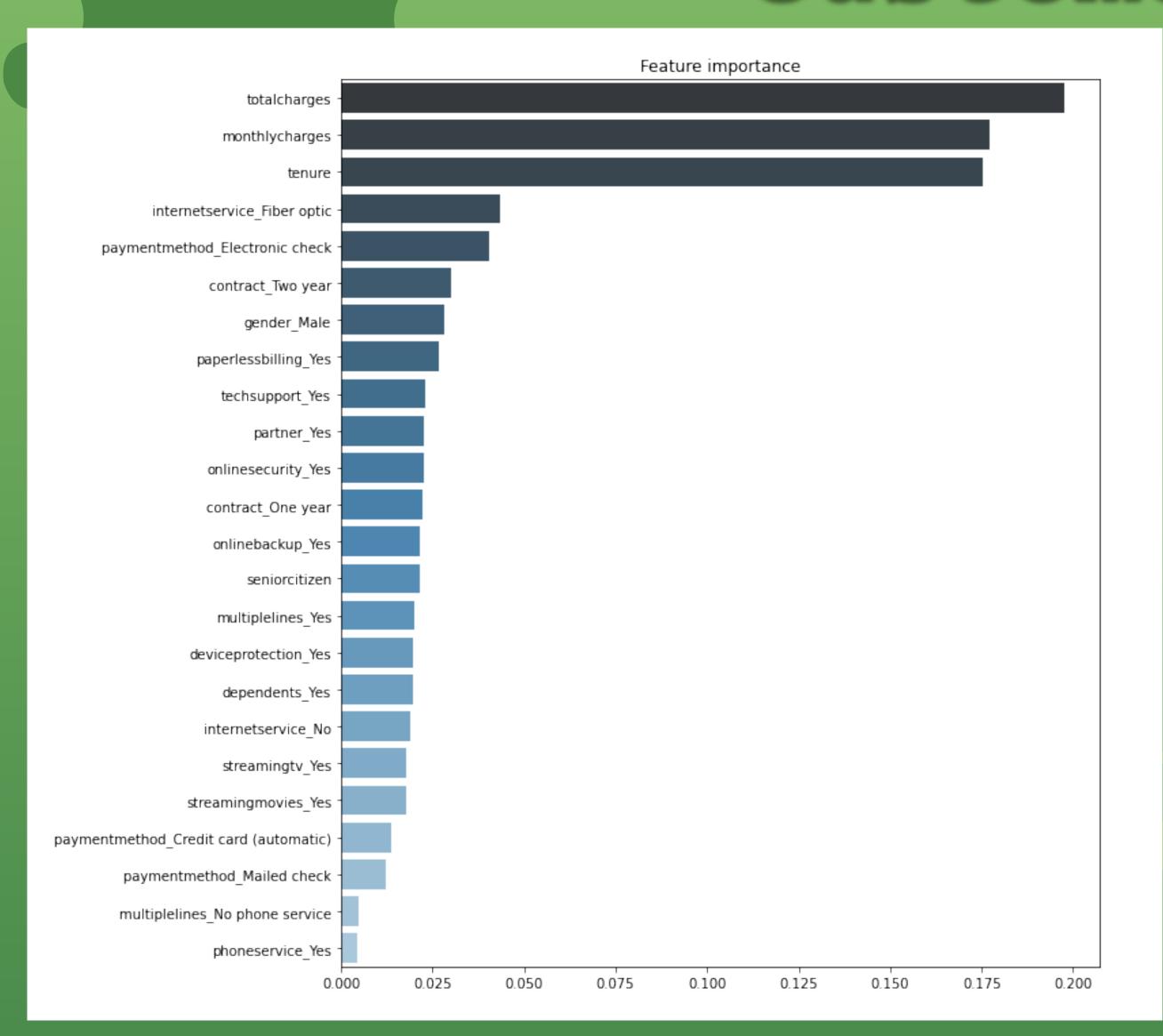








Most important factors in customer churn

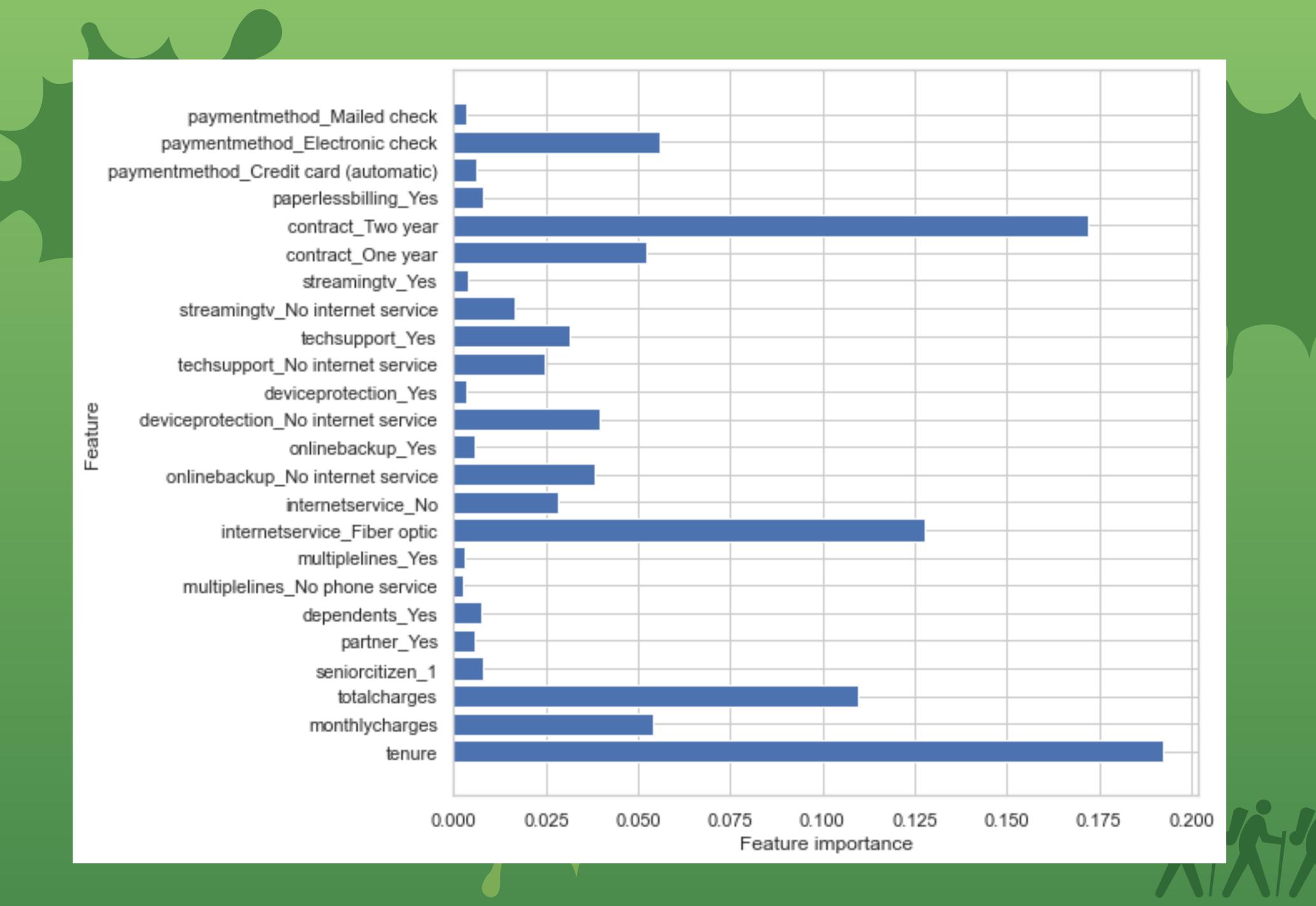


Decrease Churn

- √ Tenure
- Vone year contract
- √Two year contract

Increase Churn

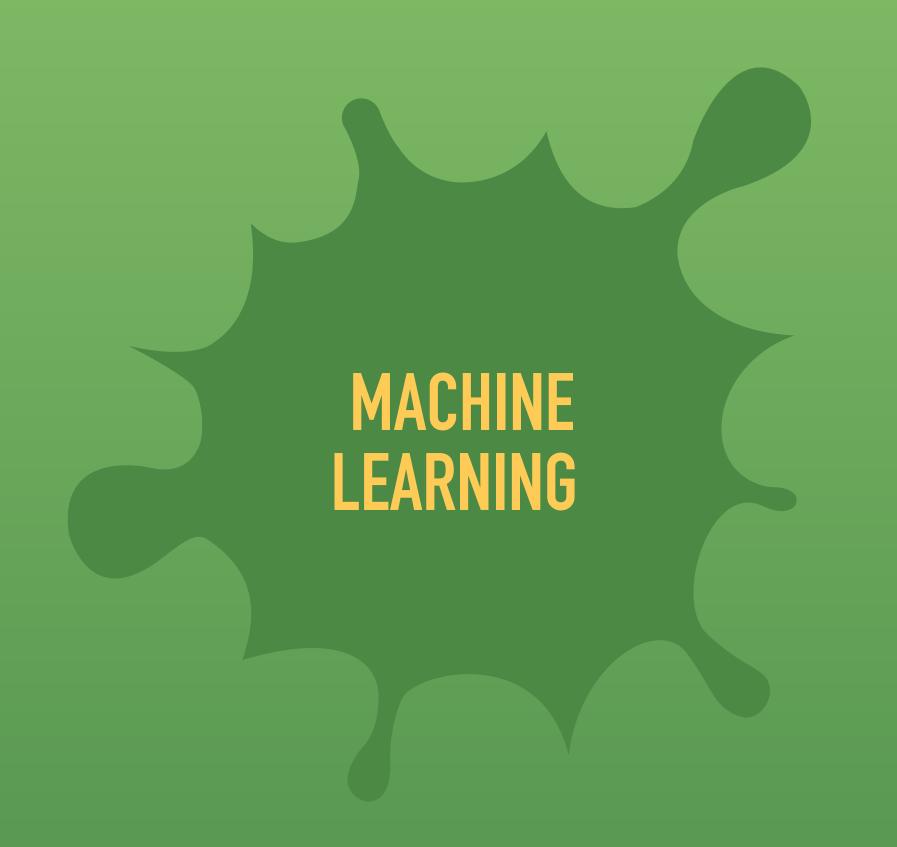
/ Fibel optic internet
service



Question for explore

- 1. Which features decrease churn rate and which increase churn rate?
- 2. Is it predictive modeling helpful for telco companies? Can it handle the problem of customer churn?
- 3. What is companies needed to do to retain churning customers?





- ✓ predict customer churn with 78% accuracy
- / helps to find
 customers with high risk
 to churn



What Makes your Churner Different?

- /create long term
 contracts
- /send personalized
 emails with variants of
 payments methods
- /collect feedback about
 online services





Future Work:

COLLECT MORE INFORMATION:

- **▶ DATA USAGE INFORMATION**
- ► MAP POSITION
- **▶** COMPETITORS' OFFERS

FEATURE ENGINEERING

► THINK LIKE A CUSTOMER

► THINK LIKE A MANAGER

TRY NEW

► USE MORE MODELS

► START NEURAL NETWORK



THANK YOU!