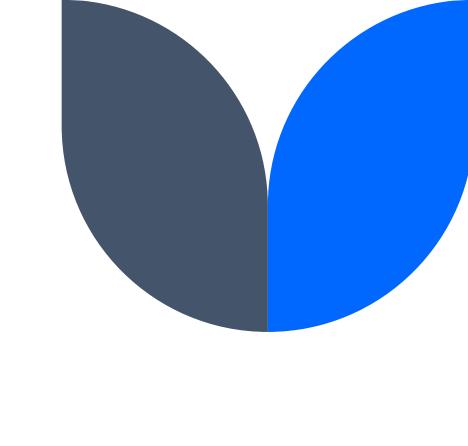
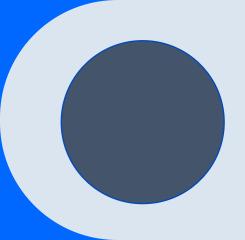
# **Customer Churn Analysis**

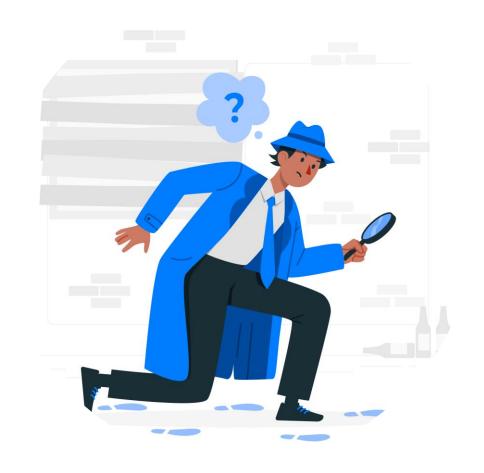




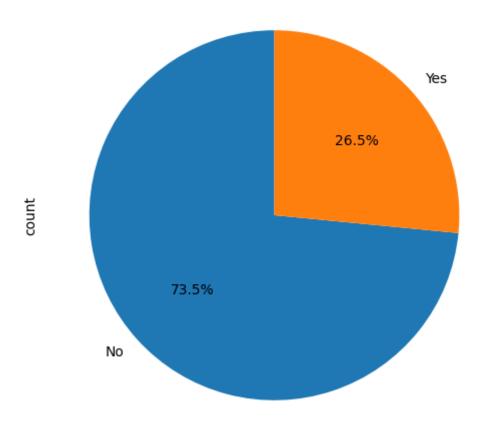
### Introduction

In this project we aim to identify factors driving customer churn and develop machine learning models to predict churn, allowing for proactive retention measures.

## **Hidden Insights**



### Churn Label Distribution

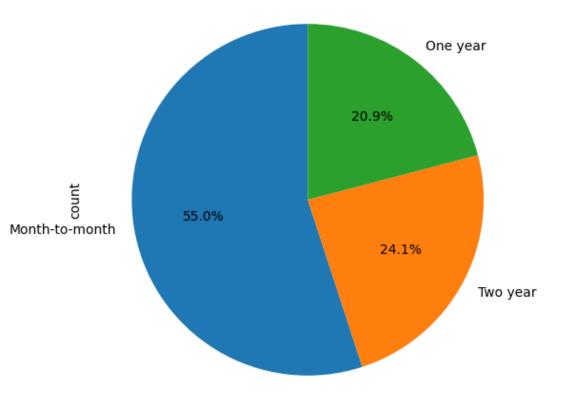


• 26.5% of customers have stopped using the service

WHY..?



#### Contract Distribution



### **55% Month-to-Month Contracts:**

Increased customer churn potential

•Higher susceptibility to competitive offers



### One year 20.9% 55.0% Month-to-month 24.1% Two year

Contract Distribution

## Q: How can we motivate the customer to upgrade their contract?

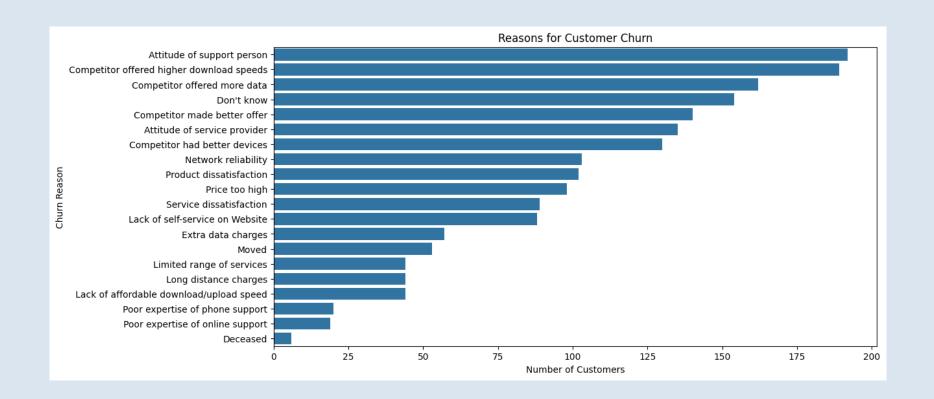
- better services..?
- better offers..?
- better customer support..?
- or something else..?

### **Top 7 Churn Reasons:**

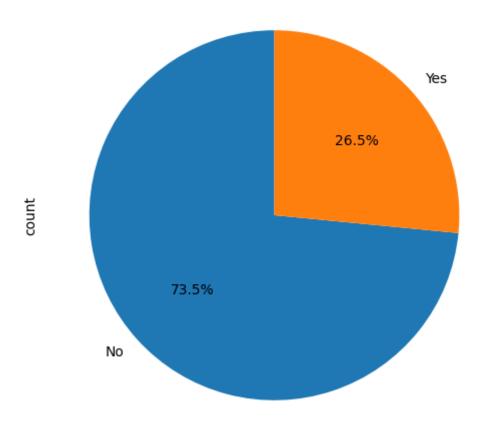
- -Support Quality Issues
- -Lack of Attractive Offers

### **Strategy:**

- -Enhance customer support experience
- -Develop compelling value propositions



### Churn Label Distribution



• 26.5% of customers have stopped using the service

WHY..?



### **Model Performance**

```
model_2 = LogisticRegression()
model_2.fit(x_train, y_train)
pred_2 = model_2.predict(x_test)
Show hidden output
metricsFormat(y_test, pred_2)
 Metric
               Value
 Precision
 Recall
 F1 Score
 Accuracy
```

## Thank you

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