

# **CUSTOMER CHURN ANALYSIS REPORT**

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MARCH 15 2025

# Customer Churn Analysis: Summary Report

## Executive Summary:

This report summarizes the analysis of customer churn data aimed at identifying key drivers of customer attrition and providing actionable recommendations for reducing churn rates. The analysis revealed that contract type, monthly charges, tenure, and satisfaction scores are significant factors influencing customer churn. Specifically, customers on month-to-month contracts, those with higher monthly charges, shorter tenure, and lower satisfaction scores are at a higher risk of churning. Based on these findings, targeted retention strategies focused on these factors are recommended to improve customer loyalty and reduce churn.

## 1. Data Description:

The dataset analyzed consisted of customer information including demographics (gender, marital status), service usage (tenure, monthly charges, total charges), contract details (contract type, payment method), and customer feedback (satisfaction score, complaints). The data was cleaned by handling missing values, ensuring data type consistency, and removing duplicates. Feature engineering involved creating a Customer Lifetime Value (CLTV) estimate to better understand the financial impact of churn.

## 2. Key Insights:

- **Overall Churn Rate:** The overall churn rate in the dataset is [Insert churn rate percentage here], indicating a moderate level of customer attrition.
- **Contract Type:** Customers on month-to-month contracts exhibit significantly higher churn rates compared to those on one-year or two-year contracts. This suggests a lack of commitment and a higher propensity to switch services.
- **Monthly Charges:** Higher monthly charges are positively correlated with churn. Customers paying more per month are more likely to churn, potentially due to price sensitivity or dissatisfaction with the perceived value.
- **Tenure:** Customers with shorter tenure are more likely to churn. This could indicate onboarding issues, unmet expectations, or a lack of engagement early in the customer lifecycle.
- **Satisfaction Score:** Lower satisfaction scores are strongly associated with higher churn rates. Dissatisfied customers are more likely to seek alternative services.
- **Other Notable Factors:**
  - Customers with complaints (even if resolved) churn at higher rates.
  - Specific preferred login devices are linked to increased churn, which might suggest device compatibility issues.
  - A decrease in customer revenue has been seen across customer segments

### 3. Recommendations:

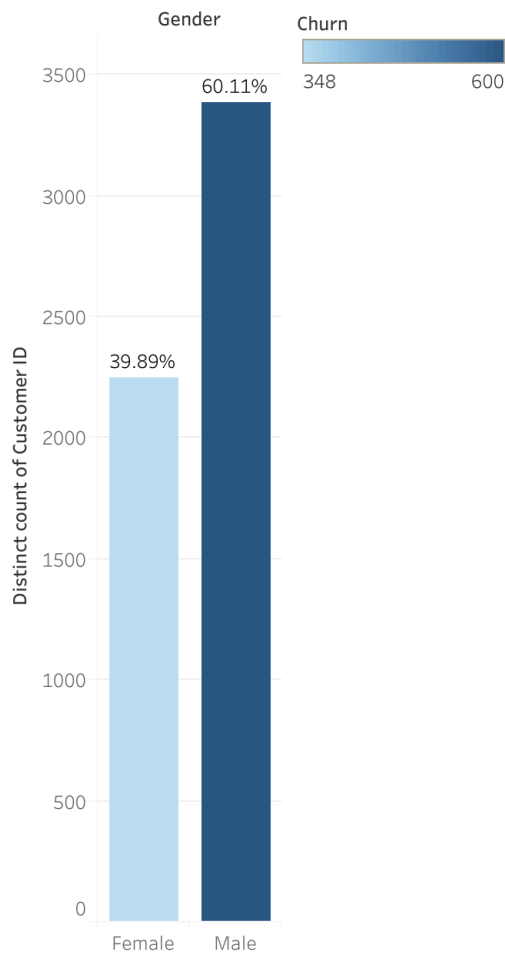
Based on the key insights, the following recommendations are proposed to reduce customer churn:

- **Incentivize Longer-Term Contracts:** Offer discounts or other incentives to encourage customers to switch from month-to-month contracts to one-year or two-year contracts.
- **Value-Based Pricing Strategies:** Re-evaluate pricing tiers and offer competitive pricing options to address price sensitivity among customers with higher monthly charges. Communicate the value proposition of services clearly to justify pricing.
- **Enhanced Onboarding Program:** Develop a robust onboarding program to improve customer engagement and satisfaction early in the customer lifecycle. This could include personalized support, tutorials, and proactive communication.
- **Proactive Customer Satisfaction Initiatives:** Implement strategies to proactively address customer dissatisfaction. Conduct regular surveys to gauge satisfaction levels and identify areas for improvement.
- **Complaint Resolution Excellence:** Focus on improving the complaint resolution process to ensure timely and satisfactory resolution of customer issues. Train customer service representatives to handle complaints effectively and empathetically.
- **Targeted Retention Campaigns:** Develop targeted retention campaigns focused on customers identified as high-risk for churn (e.g., those on month-to-month contracts, with high monthly charges, short tenure, or low satisfaction scores).
- **Further research on price sensitivity and value justification**

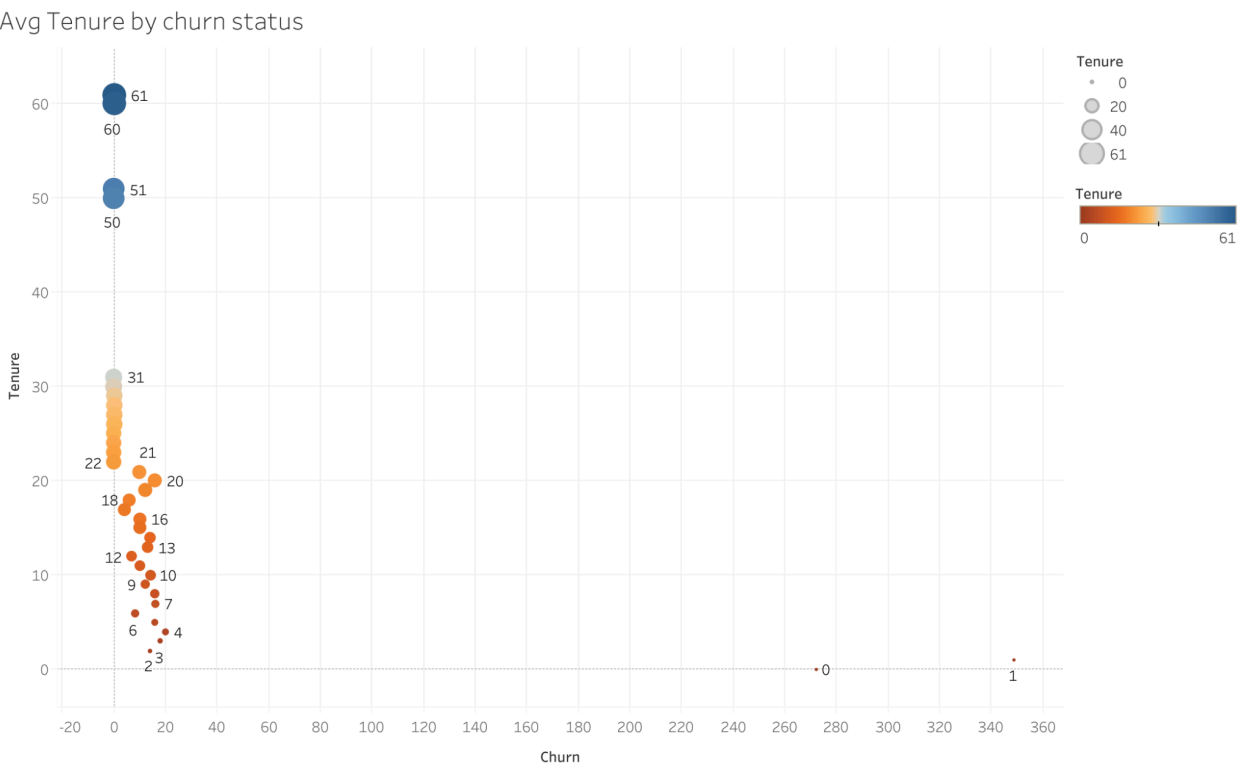
4. Visualizations:

- Churn Rate by Gender:

Churn Rate by Gender

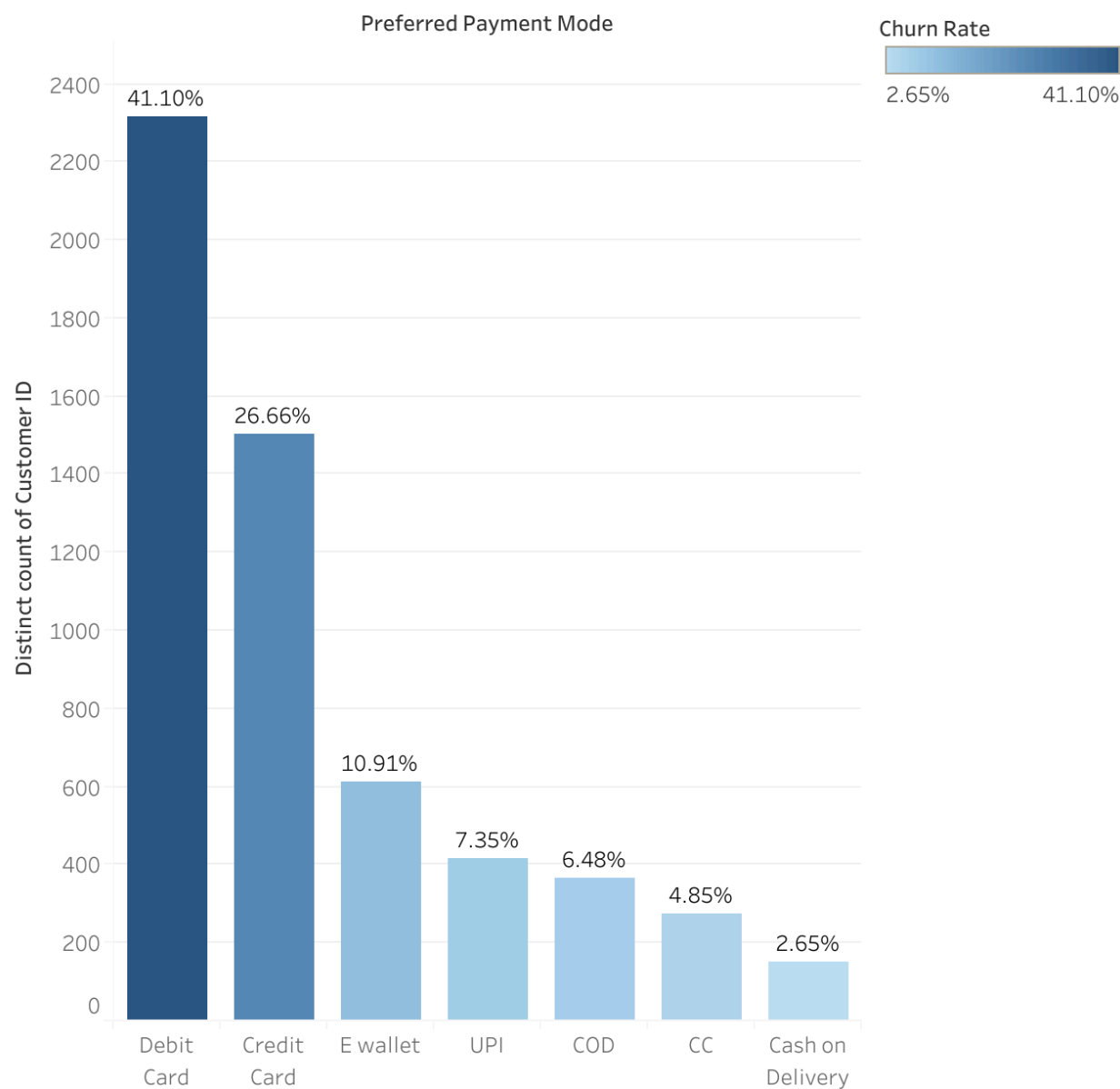


● **Average Tenure by Churn Status:**



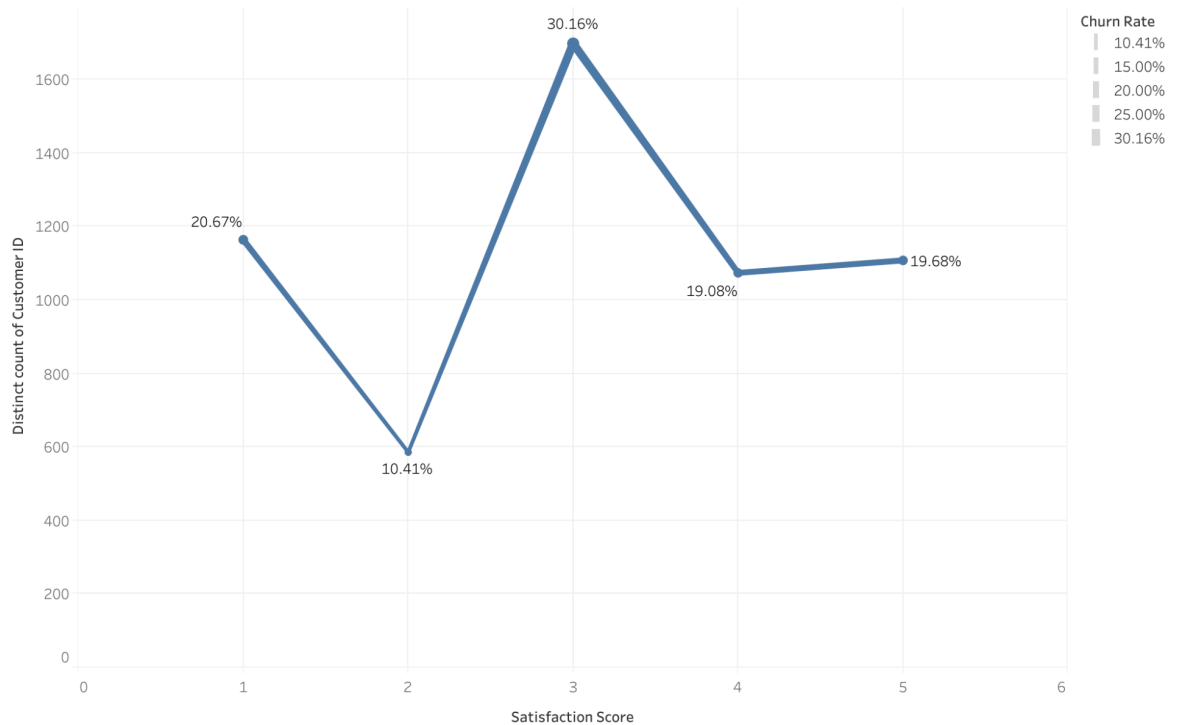
- Churn Status By Preferred Payment Mode:

churn status by preferred payment mode



- **Churn Rate by Satisfaction Score:**

Churn By satisfaction score



## 5. Limitations:

This analysis is based on the available dataset and may not capture all factors influencing customer churn. The CLTV estimate is a simplified calculation and may not accurately reflect the true lifetime value of each customer. Further research is needed to validate these findings and explore other potential churn drivers.



## 6. Future Work:

- **Advanced Predictive Modeling:** Build more sophisticated predictive models (e.g., machine learning algorithms) to identify customers at risk of churn with greater accuracy.
- **Qualitative Research:** Conduct qualitative research (e.g., customer interviews, focus groups) to gain deeper insights into the reasons behind customer churn.
- **A/B Testing:** Implement A/B testing to evaluate the effectiveness of different retention strategies.
- **Sentiment Analysis:** Apply sentiment analysis to customer feedback data to identify negative sentiment and address potential churn issues proactively.

By implementing the recommendations outlined in this report, the company can effectively reduce customer churn, improve customer loyalty, and increase profitability. Continuous monitoring of key performance indicators and ongoing analysis of customer feedback are essential for long-term success.