

PowerCO Customer Churn Prediction

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Current Model Insights and Strategic Recommendations

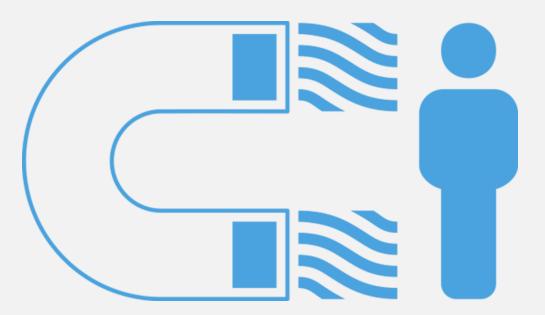




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1.1 Current Situation

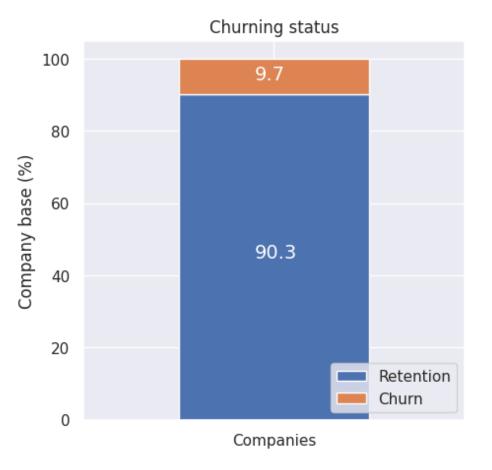
- The client is facing challenges with customer churn, impacting revenue and operational stability.
- Understanding and predicting churn is crucial for targeted interventions and resource allocation.



1.2 Complication

Challenges and Opportunities

- 1. High churn rates among a segment of customers could lead to increased costs and reduced profitability.
- 2. Identifying factors leading to churn can uncover opportunities for retention and cost-saving strategies.



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1.3 Key Question

- 1. How can we predict which customers are likely to churn and what factors contribute to this churn?
- 2. Can we leverage this information to improve customer retention strategies?



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1.4 Model Insights and Recommendations

Model Performance:

• **Accuracy**: 90%

Precision for Non-Churn: 90%

• Recall for Churn: 3% (Model has a high accuracy but low recall for churn)

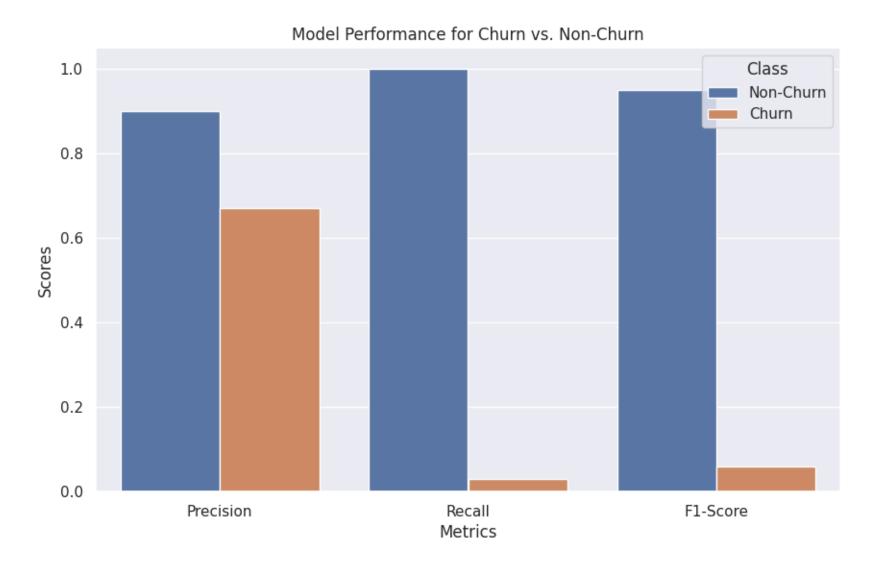
Key Findings

- The model is effective in identifying non-churn customers but struggles to identify churners.
- Insights from feature importance suggest that factors like forecast_price_energy_off_peak and forecast_discount_energy play significant roles.

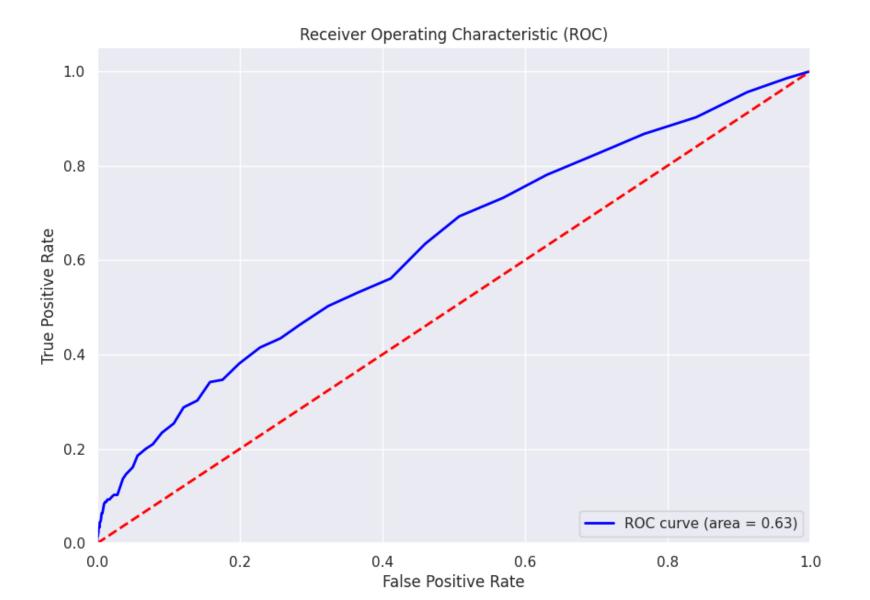
Recommendations:

- Focus on enhancing the model to better identify churners.
- Implement targeted strategies based on key features influencing churn.

1.5 Model Performance



1.6 Model ROC Curve



2.1 Impact on Business

- Improved Retention: By accurately predicting churn, you can implement proactive retention strategies.
- Cost Savings: Focused efforts on at-risk customers can lead to significant cost savings and increased revenue.
- Strategic Decisions: Enhanced data-driven insights allow for better allocation of marketing and customer service resources.

2.2 Key action

- Target High-Risk Customers: Identify and focus on customers who are predicted to churn, especially those showing significant changes in energy consumption patterns or those impacted by price fluctuations.
- Impact: Proactively engaging with these customers can reduce churn rates and improve loyalty.

2.3 Personalize Retention Strategies

Action: Utilize the insights from key features such as forecast_price_energy_off_peak and forecast_discount_energy to tailor offers and communication strategies. For example, offer discounts or incentives to customers sensitive to energy pricing.

Impact: Personalization increases the effectiveness of retention campaigns, leading to higher customer satisfaction and retention.

2.4 Improve Customer Support

Action: Enhance customer service efforts, particularly for those identified as at-risk. Ensure timely and effective responses to customer inquiries and concerns.

Impact: Better customer support can address issues before they lead to churn, improving overall customer satisfaction.

2.5 Monitor and Adjust Pricing Strategies

Action: Regularly review and adjust pricing strategies, especially during off-peak times, to ensure competitiveness and customer satisfaction.

Impact: Competitive and transparent pricing can reduce customer dissatisfaction and the likelihood of churn.

2.6 Monitor and Adjust Pricing Strategies

Action: Establish feedback mechanisms to gather input from customers, especially those who have churned or are at risk. Use this feedback to continuously improve products and services.

Impact: Continuous improvement based on customer feedback helps in addressing the root causes of churn and enhances overall customer experience.

3. Key Takeaways

High Accuracy in Predicting Non-Churn: The model is highly accurate in predicting customers who are likely to stay, providing confidence in the stability of a large portion of the customer base.

Room for Improvement in Churn Prediction: The model's lower performance in predicting actual churners highlights the need for more targeted and personalized retention strategies.

Strategic Actions Needed: By focusing on high-risk customers, personalizing offers, improving customer service, and refining pricing strategies, the client can significantly reduce churn, leading to enhanced customer loyalty and long-term profitability.

3. Conclusion

This proactive approach will not only minimize churn but also strengthen customer relationships, ultimately contributing to sustainable business growth.