

Telecom Churn Prediction

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Business Understanding

- Customer churn risk
- Retention-driven decisions
- Actionable predictions

Data Understanding

- Multiple data sources
- Customer behavior signals
- Data limitations
- Gradient Boosting Classifier
- Group of decision trees

Model

- Gradient Boosting Classifier
- Group of decision trees
- Churn Recall (91.6%)
- Overall Accuracy (57.4%)
- Churn Precision (36.6%)
- Recall Over Accuracy

Evaluation

- False negative 41
- False positive 780
- True negative 450
- True positive 657

Conclusion

- App <http://localhost:8501/>
- Business Impact
- Model Effectiveness
- Actionable Outputs