

Telecom Churn Case study

By Sayyad Munwwarali 13 August 2023

Problem statement

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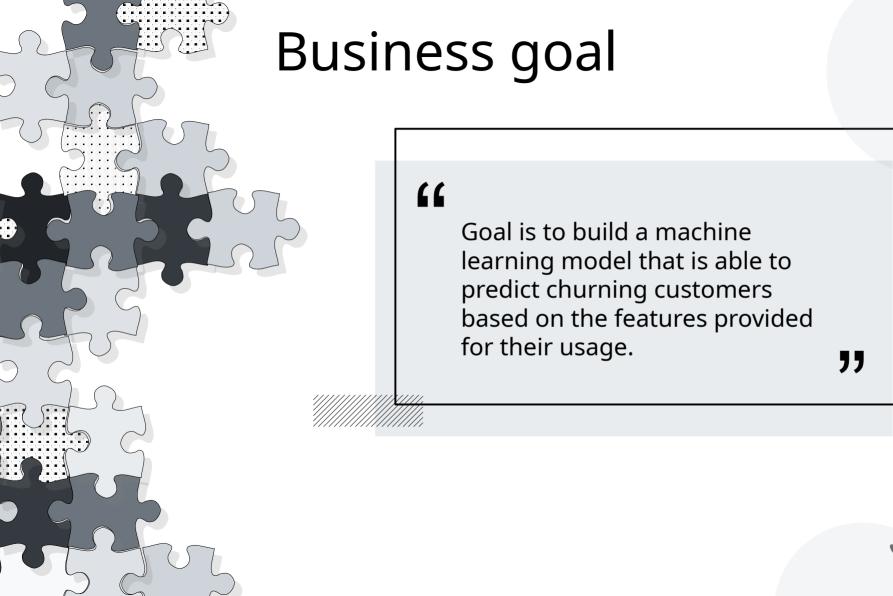
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In the telecom industry, customers are able to choose from multiple service providers and actively switch from one operator to another. In this highly competitive market, the telecommunications industry experiences an average of 15-25% annual churn rate. Given the fact that it costs 5-10 times more to acquire a new customer than to retain an existing one, customer retention has now become even more important than customer acquisition.

For many incumbent operators, retaining high profitable customers is the number one business goal. To reduce customer churn, telecom companies need to predict which customers are at high risk of churn. In this project, you will analyse customer-level data of a leading telecom firm, and build predictive models to identify customers at high risk of churn.

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Steps

- Data Understanding, Preparation, and
- Pre-Processing
- Exploratory Data Analysis
- Feature Engineering and Variable Transformation
- Model Selection, Model Building, and Prediction



Illustrations by <u>Pixeltrue</u> on <u>icons8</u>



Conclusion

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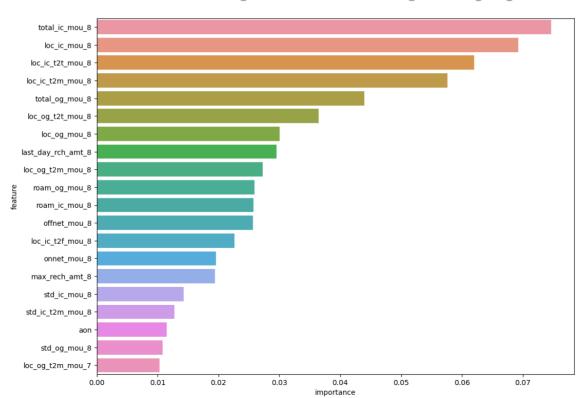
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We have used Random Forest as final model to create sample solution as it is giving test accuracy for 94% August month's data is very useful in predicting as most of the important features belongs to august month We can see various trends in august month like incoming and outgoing calls, last recharge date etc

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Thank you

