Executive Summary

Situation:

- Powerco has a problem with customer churn; they believe it is caused by customers' price sensitivities. One possible solution is to provide **20%** off to customers who are most likely to start leaving.

Machine Learning Modeling:

- After Data cleaning, EDA and Feature engineering, I applied Random Forest Classifier. Random Forest Classifier model has been built to predict customers' churn probability, achieving an accuracy of **0.90** and Precision score of **0.81** on test set.

Insights:

- Nearly **10% (9.7%)** of the customers have churned and **90%** of the customers have not churned.
- Net margin on power subscription and consumption over 12 months is a top driver for churn
- Forecasted bill of meter rental for the next 2 months also is an influential driver
- Time seems to be an influential factor, especially the number of months they have been active, their tenure and the number of months since they updated their contract