Hi AD,

In order to test the hypothesis of whether churn is driven by the customers' price sensitivity, we would need to

model churn probabilities of customers, and derive the effect of prices on churn rates. We would need the following

data to be able to build the following models.

Data needed:

- 1. Customer data which should include characteristics of each client, for example, industry, historical electricity consumption, date joined as customer etc
- 2. Churn data which should indicate if customer has churned
- 3. Historical price data which should indicate the prices the client charges to each customer for both electricity and gas at granular time intervals

Once we have the data, we would need to engineer features based on the data that we obtain, and build a binary

classification model (e.g. Logistic Regression, Random Forest, Gradient Boosted Machines to name a few), picking

the most appropriate model based on the tradeoff between the complexity, the explainability, and the accuracy of

the models. Based on the model picked, we would be able to understand the direction and magnitude of the impact

of prices on churn rates, as well as the relative importance of prices compared to other factors. Furthermore, the

model would allow us to size the business impact of the client's proposed discounting strategy.

Regards, Shreyanth S