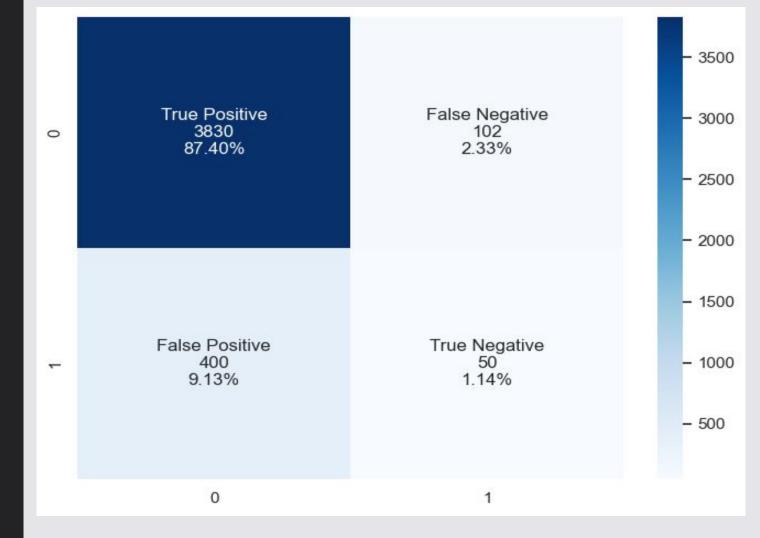
BCG Management Summary

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Management Meeting: Head of the SME division (as well as other various stakeholders)

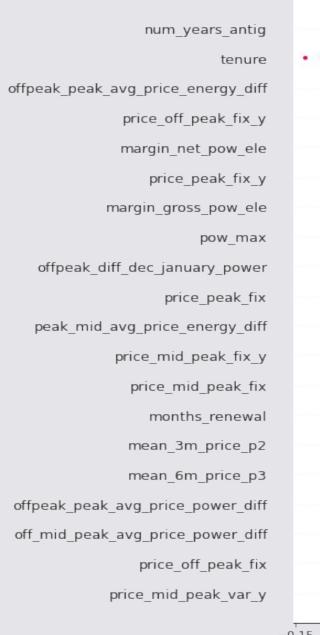
Areas of Concentration

- What is the most important number or metric to share with the client?
- What are the next steps the client should take following your analysis?
- What business impact? How would the model affect the client's bottom line?

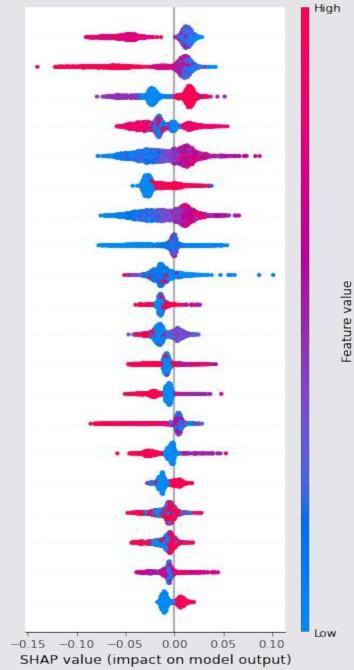


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The model's confusion matrix indicates strong performance in identifying retained clients (87.40% True Positives) but less so for churners (1.14% True Negatives), with client churn primarily driven by low antiquity/tenure and sensitivity to energy price differences (off-peak vs. peak) and overall high prices.







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Top drivers of client churn are antiquity of the client, tenure, and difference off peak - peak in energy price

If the client have low years of antiquity, probability of client will be churn is high New clients have higher probability to churn rather than old clients, because old client seems to be more loyal with the company

The larger difference between off peak - peak prices in energy, it means when off-peak way too expensive than peak, probability of clients will be churn is also high

also price off peak power and price peak power have high contribution as predictor, generally, higher prices drive clients to churn

For price sensitivity features, generally seeing there are some features that contribute as important features. We can say that prices sensitivity also became main driver of clients churn

TRAINING RESULT:
F2 Score: 0.987
Classification Report
0 0.96 0.99 0.98 9254 1 0.91 0.64 0.75 969
accuracy 0.96 10223 macro avg 0.94 0.82 0.87 10223 weighted avg 0.96 0.96 0.96 10223
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TESTING RESULT:
F2 Score: 0.96
Classification Report
0 0.91 0.97 0.94 3932 1 0.33 0.11 0.17 450
accuracy 0.89 4382 macro avg 0.62 0.54 0.55 4382 weighted avg 0.85 0.89 0.86 4382
Confussion Matrix

[[3830 102]

The model exhibits strong performance on the training data, with high F2 score (0.987) and excellent metrics for both classes. However, its generalization to the test set shows a significant degradation in identifying the minority class (churners), with a very low recall of 0.11 and precision of 0.33, indicating it largely misses actual churners despite maintaining high overall accuracy (0.89) due to strong performance on the majority class.