Data Challenge - Executive Summary

CS F415 - Data Mining

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Problem 2:

Objective: To find a set of combo meals to sell out unpopular items, while at the same time minimizing revenue loss.

After preprocessing, the following techniques were used to obtain inferences for decisions:

- **Association Rule Mining**:

  - **Done with**: Python with the *Orange* package
  - **Important Parameters** : support = 3.5e-3
  - **Inferences Obtained** : Association rules were derived along with frequent itemsets, and after sorting with respect to support value, the most sensible rules were combined to put together the results.

In addition to the above, certain statistical measures about the training data were found.

Decision Made: The updated *Meals2.csv* has been attached with the decisions made from these classifiers.

- **Result** : Around **44** combo meals were obtained.