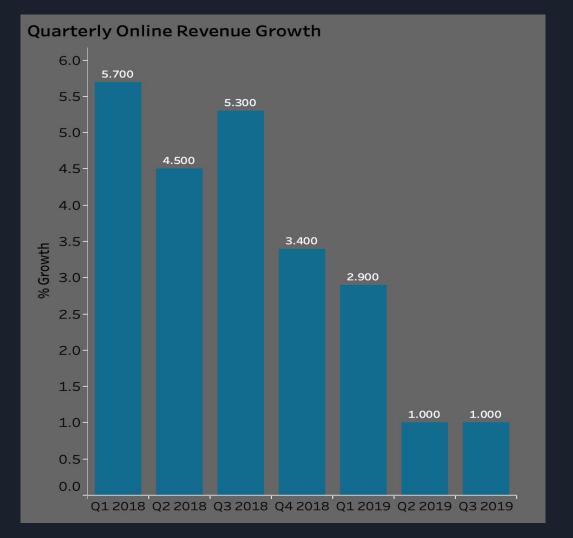


Marketing Strategy Analysis

7%



Objectives

- 1. Gain insights from past marketing campaigns to develop targeted/efficient future campaigns
 - a. Predict and influence customer behavior
 - b. Improve capture rate (recall) of campaigns
- 2. Retargeting campaigns
- 3. End goal: Increase revenue
 - a. Emphasis on website orders

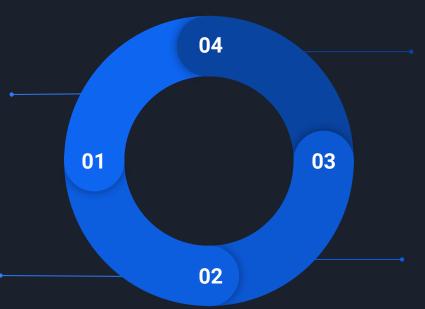
Approach

Train Multiple Classification Models

Data from previous campaigns. KNN, Naive Bayes, SVC, Decision Tree, Random Forest, Logistic Regression, XGBoost

Fine tune Top Three

Fine tune hyperparameters for: Logistic Regression, Random Forest, XGBoost



Final EDA + Recommendations

Deeper dive into top features and groups. Make recommendations.

Top Model: XGBoost

Interpret results and feature importance





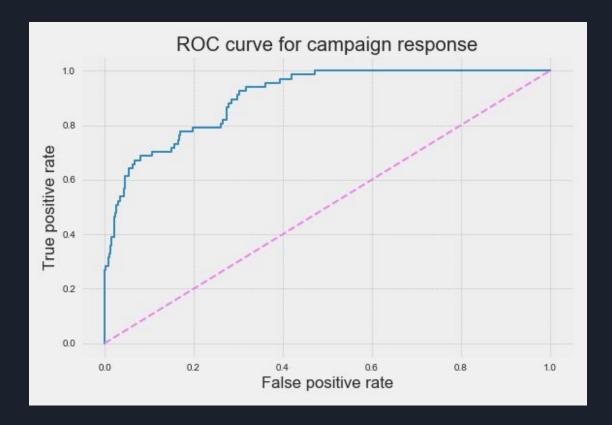






XGBoost Model Performance

AUC Score: 90.4%



XGBoost Model Performance

Marketing strategy: Cost per Acquisition, each acquisition ~ 27\$

- False Positives
 - From marketing standpoint doesn't matter
- False Negatives
 - May affect marketing budget if many unpredicted advertisement payments
 - May lead to being understocked

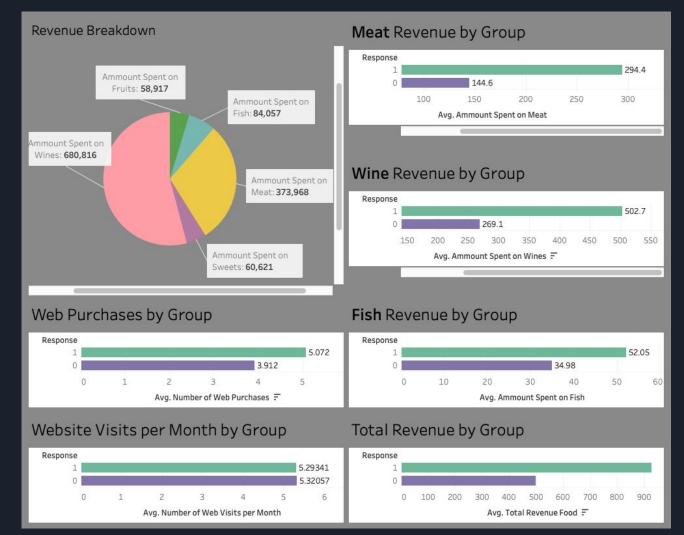


Feature Importance:

Top 10/29 variables the model deemed most important in classifying Responders vs. Non-Responders



Customers who respond to campaigns have high lifetime value



Recommendations

Using the model we will be able to target customers with high lifetime value via:

- Retargeting and nurture of existing customers
 - Bring back to website for increased revenue and retention
 - Cheaper, easier compared to new acquisition
- Retargeting of new customers
 - Only 2 % of people who see an ad the first time convert

Thank you

- Alen Tersakyan (Analytical Marketing)

Summary

- Problem: Current state of website revenue
- Solution: Classification models to predict response to campaigns
- Exploration: Exploratory analysis on key metrics between groups
- Recommendations: Retargeting to increase revenue and improve marketing strategy



Retargeting

