# Marketing Campaign

XYZ Group wants to leverage advanced analytics for boosting marketing campaign. You need to meet with the

customer to present your advanced analytics capabilities and position its value.

#### Overview

XYZ Group is one of the leading retailers' industry in the region, with more than 50 branches across the region. It runs multiple lines of business applications, mainly in the sport goods industry. They are in the middle of their digital transformation journey and they want to keep leading the market by satisfying their customers and meeting their expectation.

### **Business Environment and Goals**

XYZ Group will releasing an advanced analytics RFP. We want to see the value from using your platform for advanced analytics and the data platform challenges that accompany it. Given the data sample, we provided from our sales databases, we want to know if using advanced analytics, you can help the marketing team. While the marketing team will be interest to see if they can increase their efficiency, the management team want to know if using advanced analytics may increase sales in general.

#### **Tasks**

We need a data scientist to discuss the following:

- Think about how you will be conducting the business conversation (purpose, agenda ... etc.)
- Discuss and confirm your understanding of the organization's business climate and goals
- Explore the problem and its impact to the company
- Communicate the business value of your advanced analytics platform offering that addresses the problem or *need* the customer has communicated
- Address any customer objections
- Explaining the details of the machine learning model is crucial. Pick a model at your choice (e.g. Logistic Regression) and be ready to go through the details of the algorithm.
- Close the meeting with clear next step(s)
- You will be evaluated based on communication and presentation skills

# Data

## The Sales Data Sample

The provided data represents information from a marketing campaign. We provided you information about the product in the campaign/offer that was send to a specific customer and the convergence result of this campaign (label attribute). We provided you we every attribute we have about the product, use whatever you see make sense to solve the defined project. Here is a list of the attributes:

country: Country name

article: 6 digit article number, as unique identifier of an article
sales: total number of units sold in respective retail week

regular\_price: recommended retail price of the article

current\_price: current selling price (weighted average over the week)

ratio: price ratio as current\_price/regular\_price, such that price discount is 1-

ratio

retailweek: start date of the retailweek

• promo1: indicator for media advertisement, taking 1 in weeks of activation and 0

otherwise

promo2: indicator for store events, taking 1 in weeks with events and 0 otherwise

customer\_id: customer unique identifier, one id per customer

article: 6 digit article number, as unique identifier of an article

productgroup: product group the article belongs to
category: product category the article belongs to

• cost: total costs of the article (assumed to be fixed over time)

style: description of article design

sizes: size range in which article is available
gender: gender of target consumer of the article

rgb\_\*\_main\_color: intensity of the red (r), green (g), and blue (b) primaries of the article's main color, taking values [0,250]

rgb\_\*\_sec\_color: intensity of the red (r), green (g), and blue (b) primaries of the article's secondary color, taking values [0,250]

• label: advertisement result after offering/sending/presenting the offer to the customer. 0 means the customer did not buy and 1 means the costomer did buy.