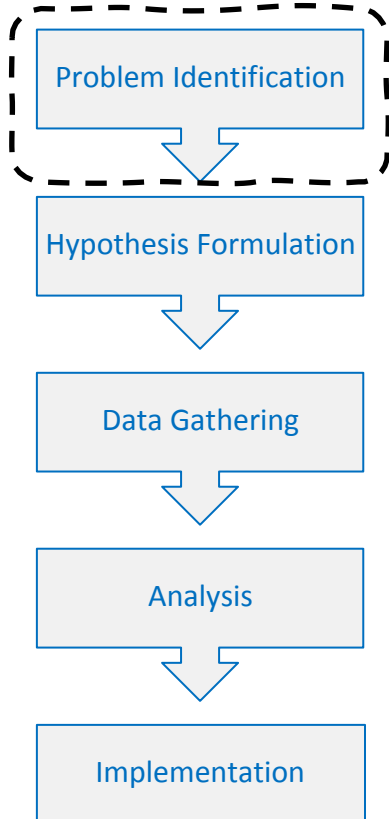


# Introduction to Data Science and Business Analytics- Case Study Example

# Case Study – Example – Xcite Apparels



## Background

- Xcite Apparels is a chain of apparel stores across US with presence in 150+ cities and over 200+ stores
- They have a Loyalty card based membership system in place which helps them gather a lot of data around their customer and their purchase behavior
- Customers are generally spoilt for choice with a variety of options (online & offline) in the market
- Multiple retailers are fighting over the customers 'share of wallet'
- Customers can switch preferences easily
- There is Limited shelf space in the store

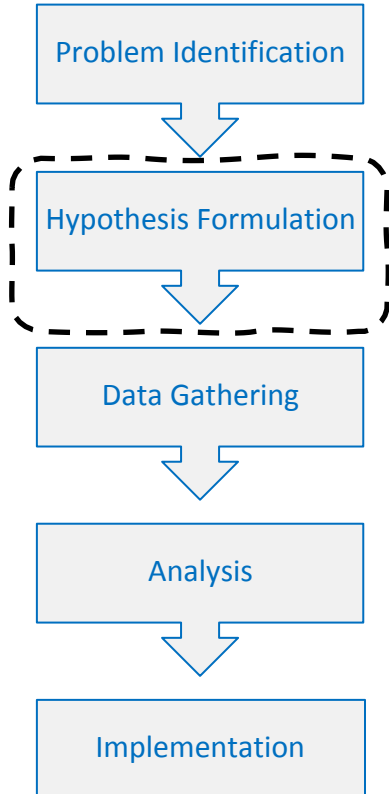
## Goal

- Xcite Store wants to understand the consumer shopping behavior to focus on the most promising segments

## Key questions

- What are the different segments of customers?
- How to differentiate the offerings to different set of customers?
- What campaigns and promotions to run to target these segments?

# Case Study – Example – Xcite Apparels

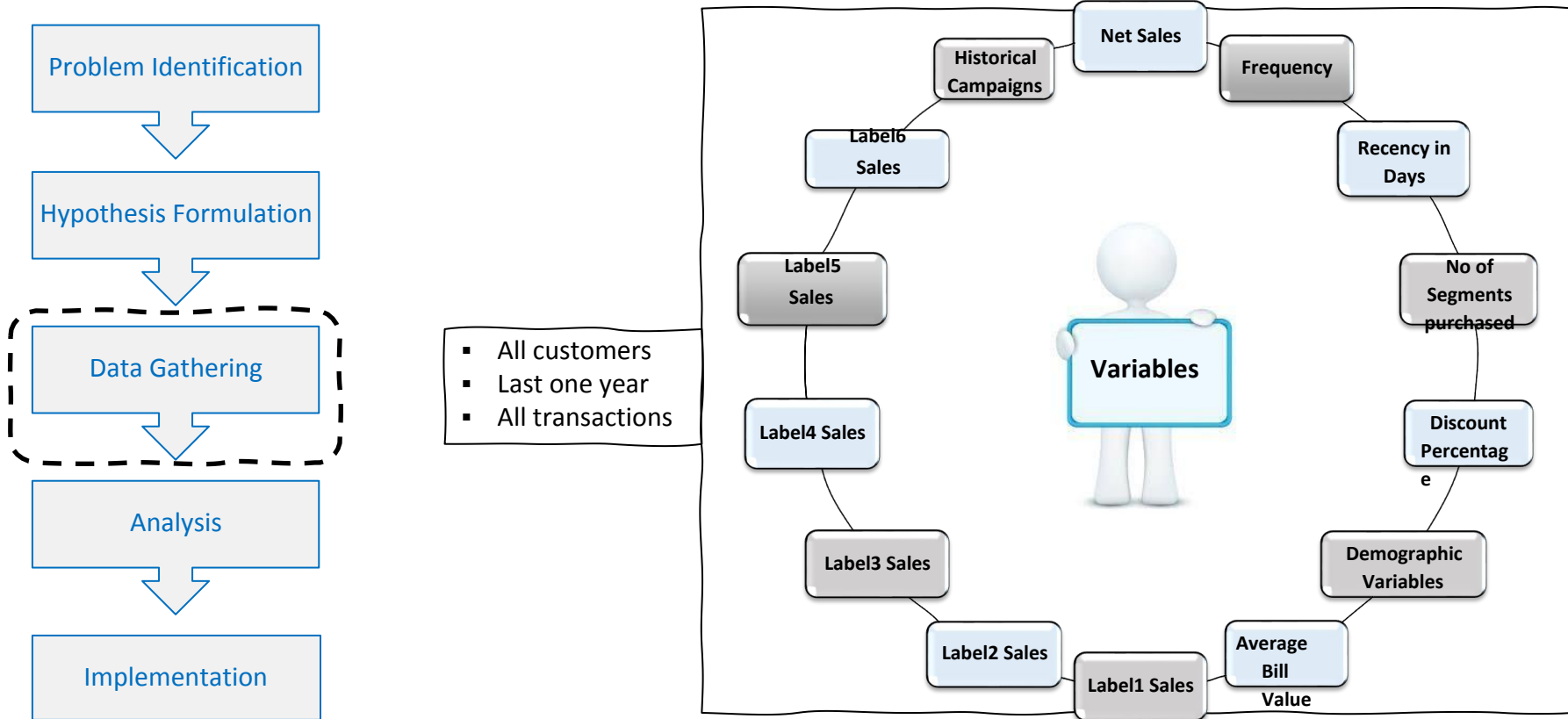


- Hypothesis is a proposal
- Will be validated in the analysis phase to generate insights

## Examples of hypotheses

- Customers who purchase Label 1 can be potential customers of Label 2
- Customers who buy women's labels are likely to have higher frequency of visits
- Customer who buy at lower price point will increase basket size if discounts are available

# Case Study – Example – Xcite Apparels



# Case Study – Example – Xcite Apparels

Problem Identification

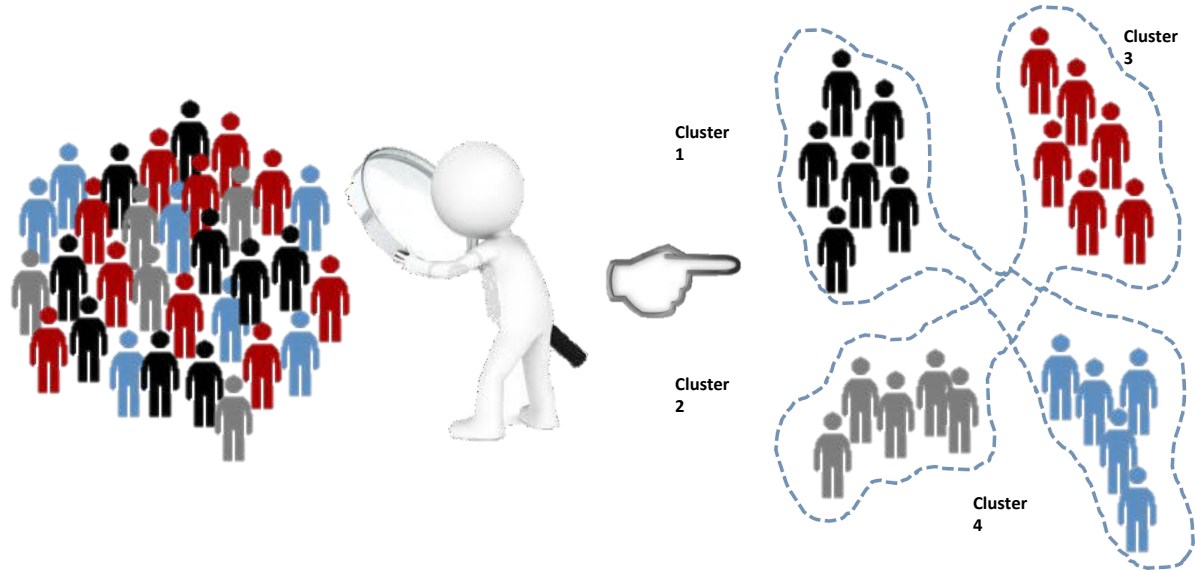
Hypothesis Formulation

Data Gathering

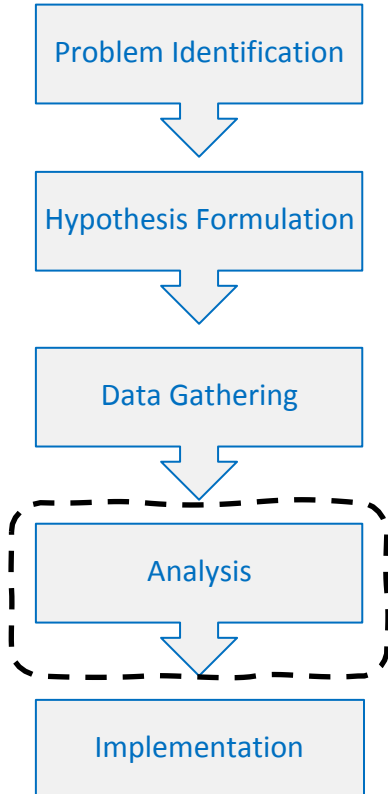
Analysis

Implementation

- Exploratory data analysis to validate hypothesis – Are hypothesis backed by data?
- Cluster analysis to identify different segment of customers based on variables & learnings from EDA phase
- Identifying key drivers of sales in each of these segments



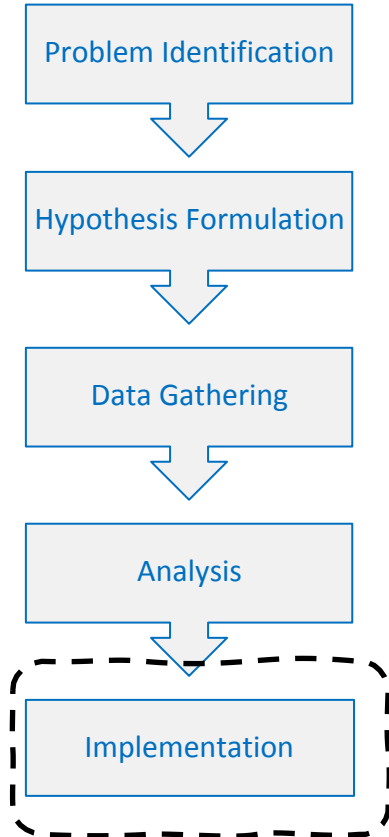
# Case Study – Example – Xcite Apparels



- Exploratory data analysis to validate hypothesis – Are hypothesis backed by data?
- Cluster analysis to identify different segment of customers based on variables & learnings from EDA phase
- Identifying key drivers of sales in each of these segments

Customer Segment	% of Customer Base	% of Total Sales	Average Bill Value \$	Average Frequency
Wolf of Mall Street	5%	34%	\$800	10
Lazy Shoppers	20%	43%	\$432	6
Mocking Birds	31%	19%	\$250	3
Invisibles	42%	3%	\$99	1

# Case Study – Example – Xcite Apparels



Wolf of Wall Street – Increase share of wallet

- High end labels in stores where they shop more
- Promotional campaigns with niche products

Lazy Shoppers – Promote new labels with discounts

- Ensure they get retained and shop with us each time
- Run campaigns with information on new arrivals in the stores

Mocking Birds – Increase bill value and/or frequency

- Cross sell different labels
- Update range of products in the stores they visit more in

Invisibles – Keep them engaged with strategic promotions on low price points

- Experiment to identify what are they not buying with us
- Keep them coming as they also spread brand awareness among masses

**greatlearning**  
*Power Ahead*

**Happy Learning !**

