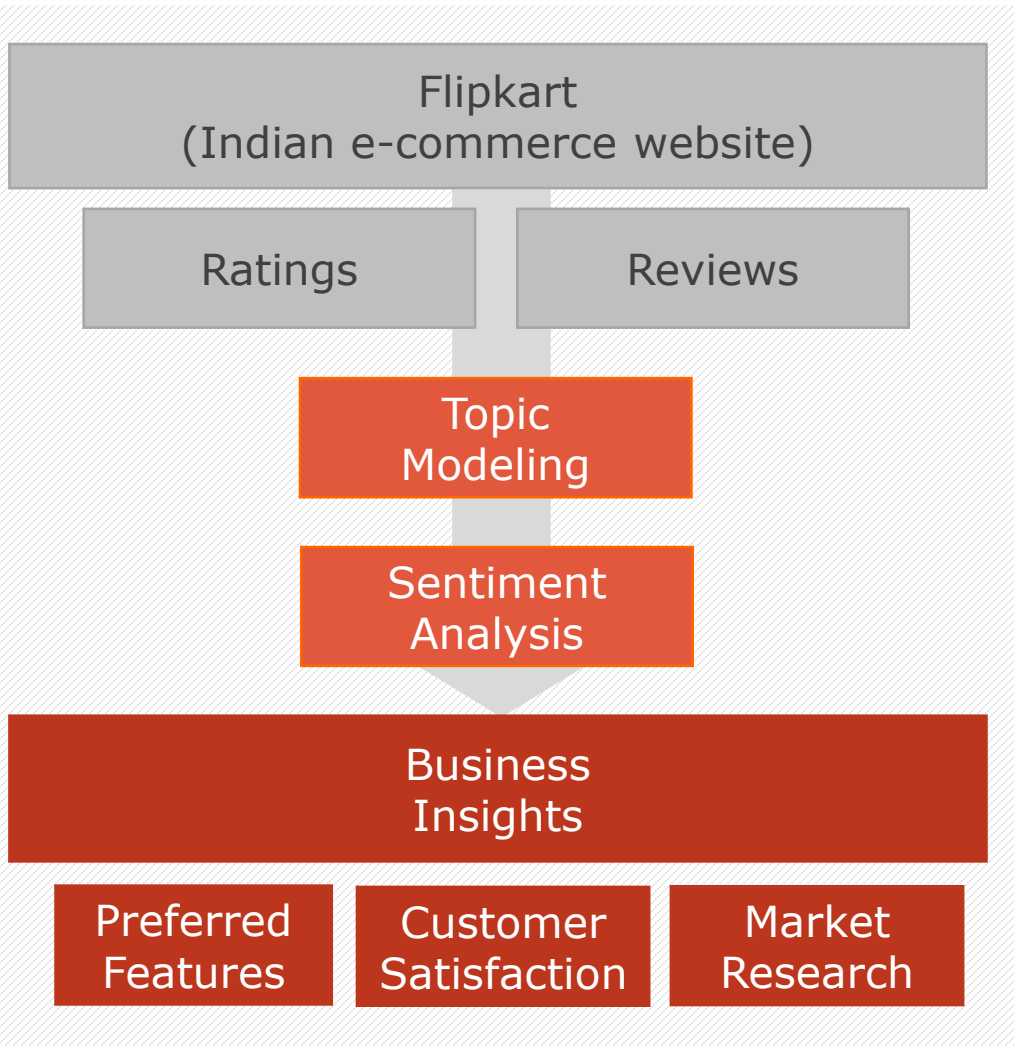




Extracting Customer Perception of iPhone SE from e-commerce Website Reviews to Propose Future Development Strategies

Team 2:Section 30
Xinge Han
Seojung Park
Lucas Yang
Young Kim

Let's gain business insights about the selling points Of the iPhone SE in India by analyzing ratings & reviews



Objectives

01

Identify the most interesting topics among iPhone SE users in India.

02

Discern the sentiments articulated within the reviews.

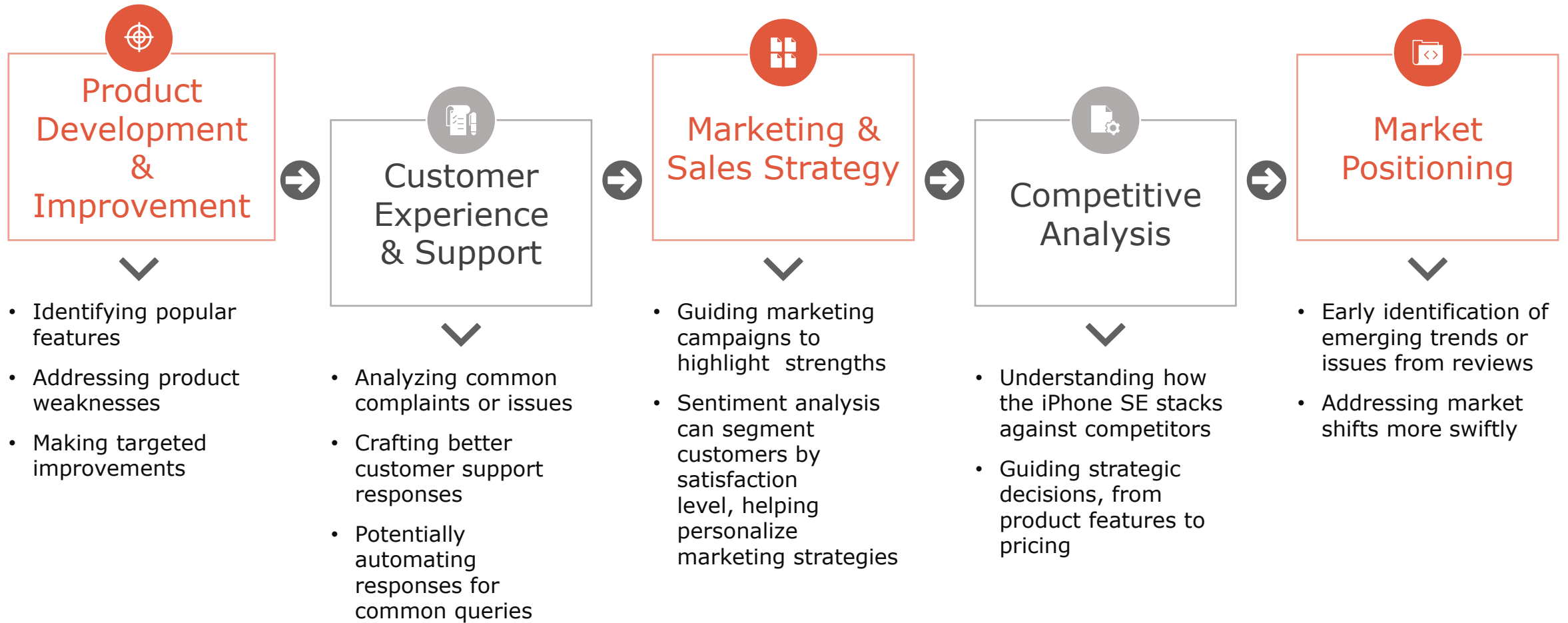
03

Identify topics relevant to positive or negative sentiments.

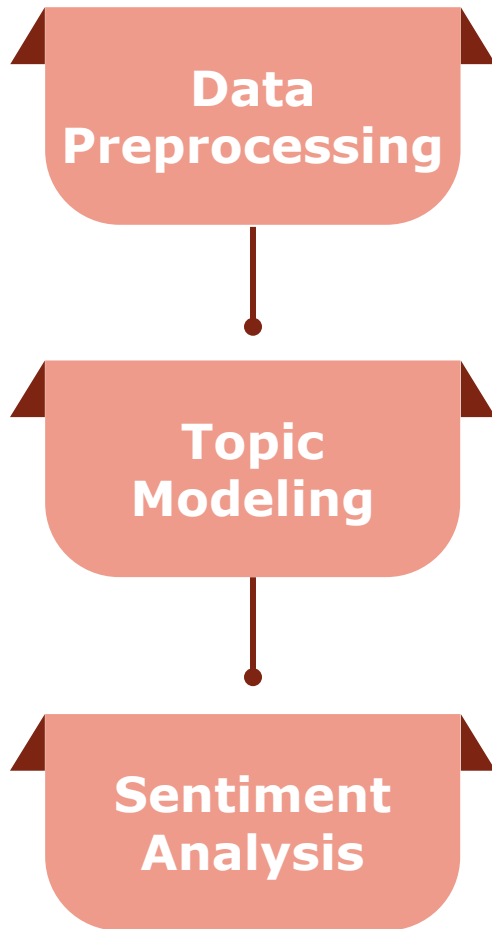
04

Investigate whether ratings serve as an excellent indicator for sentiment classification compared to reviews.

How can we help improve business outcomes?



iPhone SE Feature Identification and Emotional Response through **Topic Modeling** and **Sentiment Analysis**



Topic Modeling

Why Topic Modeling?

- Efficiency Improvement
- Target Identification
- Data Organization

Disadvantages

- Overlapping of the Same Word
- Necessitate Manual Tuning and Topic Label

Process: LDA

1. Feature Extraction: "Bag-of-Words"
2. Set # of Topics
3. Create Label
4. Model Evaluation

Sentiment Analysis

Why Sentiment Analysis?

- Emotional Insight
- Market Feedback
- Marketing Strategy

Disadvantages

- Contextual Limitations
- Absence of Fine-grained Sentiment Expressions

Process: VADAR

1. Lexicon-Based Sentiment Analysis: VADER Lexicon

A top-down view of a person in a blue suit sitting at a dark wooden desk. Their hands are on a silver laptop; the right hand is on the keyboard and the left is on the trackpad. The laptop screen shows a document titled "APPLICATION FOR PERMIT". To the left of the laptop, there are several business documents. One document is titled "Company's Gr" and "Business Company" and contains a table with columns for "Opportunities", "Revenue", and "Profit". Another document is titled "1111-01CE" and "1111-01CE". A yellow binder clip is holding one of the documents. A pen is also visible on the desk. The background is a dark wooden desk. The text "THANK YOU" is overlaid in the center of the image.

THANK YOU