# MADT8101 Customer Analytics

Course summary

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### Overview

Customer analytics is a process by which data from customer behavior is used to help make key business decisions











# Objective





### Why we need Customer Analytics?

### **Customer Behavior is the Key!!**



- Economics
- Psycological
- Cultural
- Demograpic

### Maslow's hierarchy of needs

#### **Self-actualization**

desire to become the most that one can be

#### **Esteem**

respect, self-esteem, status, recognition, strength, freedom

#### Love and belonging

friendship, intimacy, family, sense of connection

#### **Safety needs**

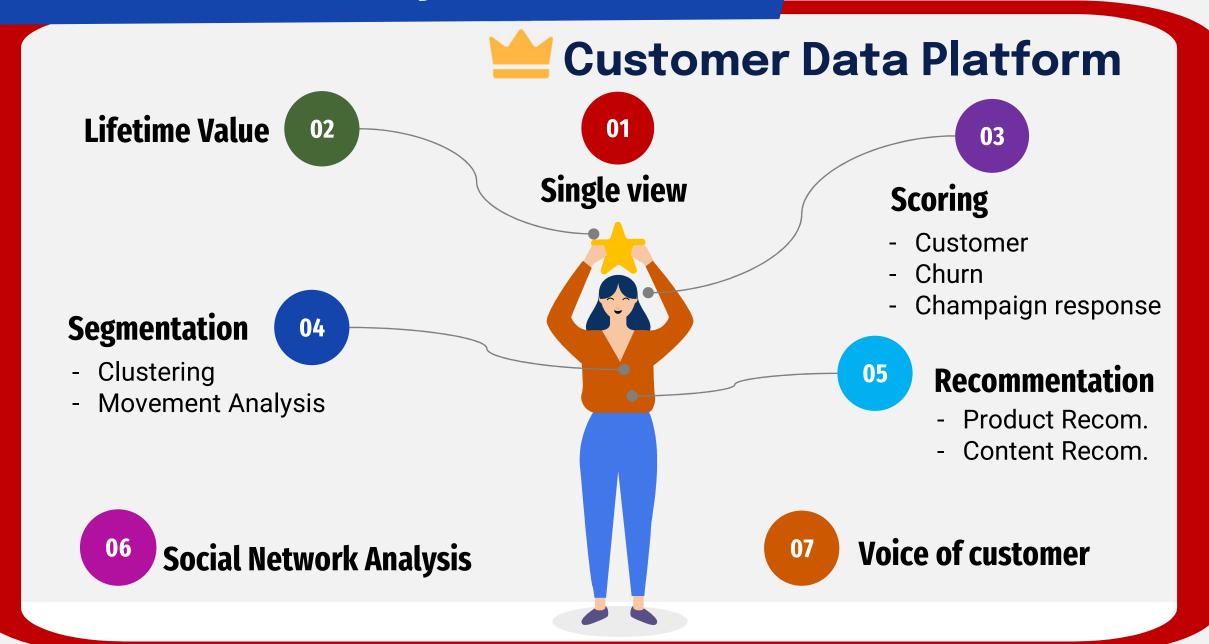
personal security, employment, resources, health, property

#### Physiological needs

air, water, food, shelter, sleep, clothing, reproduction



### **Customer Data Analysis - Overview**



### **Customer Data Platform**

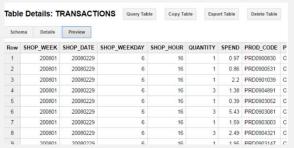
A Customer Data Platform (CDP) is a platform that amalgamates and manages customer data from various source.

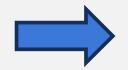






# **Customer Single view**





Row	CUST_CODE	LAST_VISIT	TOTAL_VISIT	TOTAL_SPEND
1	CUST0000944589	20080322	12	251.96
2	CUST0000229535	20080323	29	213.51999999999998
3	CUST0000453734	20080323	29	200.05

Transaction

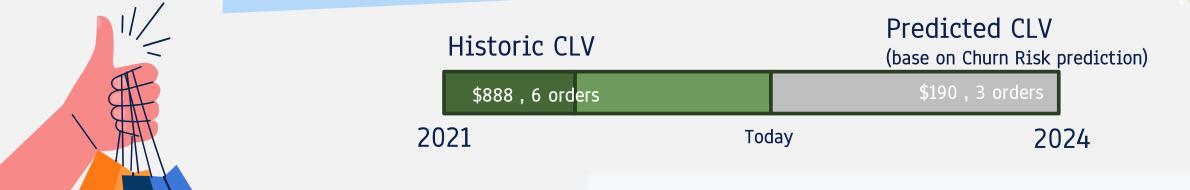
Single record

#### Example

Row	CUST_CODE	LAST_VISIT	TOTAL_VISIT	TOTAL_SPEND	AVG_WEEKLY_VISIT	AVG_WEEKLY_SPEND	AVG_BASKET_SIZE
1	CUST0000944589	20080206	2	53.5	2.0	53.5	26.75
2	CUST0000667959	20080208	3	12.93	3.0	12.93	4.31
3	CUST0000229535	20080206	4	15.24	4.0	15.24	3.81

### **Customer Lifetime Value**

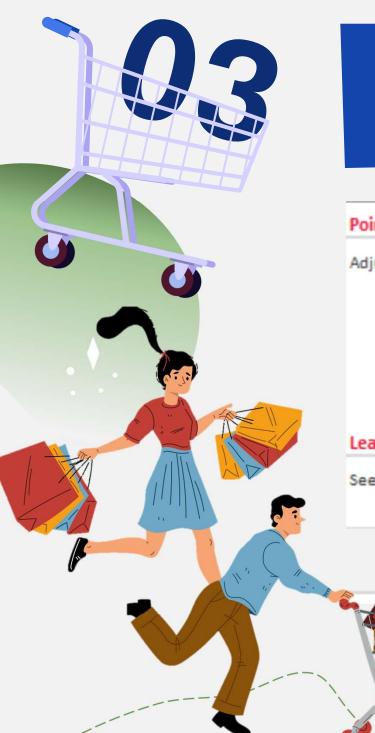
CLV is value of customer relationship, based on the present value of projected future cash flow from relation ship





CLV =

Number of clients for the period



# Scoring

## Customer

#### Points to Level

Adjust the Medium Level Points range (highlighted in yellow) below to determine the appropriate ranges for each Level.

Interest

Points

Qualification				
Low	High	Level		
61	100+	High		
30	60	Medium		
_				

miterest.				
Low	High	Level		
61	100+	High		
45	60	Medium		
0	44	Low		

Level

Rating

#### **Lead Rating**

See the Lead Rating outcome based on the Qualification Answers and Interest Behaviors selected above.

	Folito	EC C	Haring
Calculated Qualification	78	High	۸
Calculated Interest	70	High	A



# Scoring

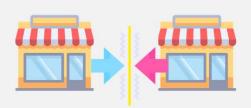
# Churn



### Factor / Indicator



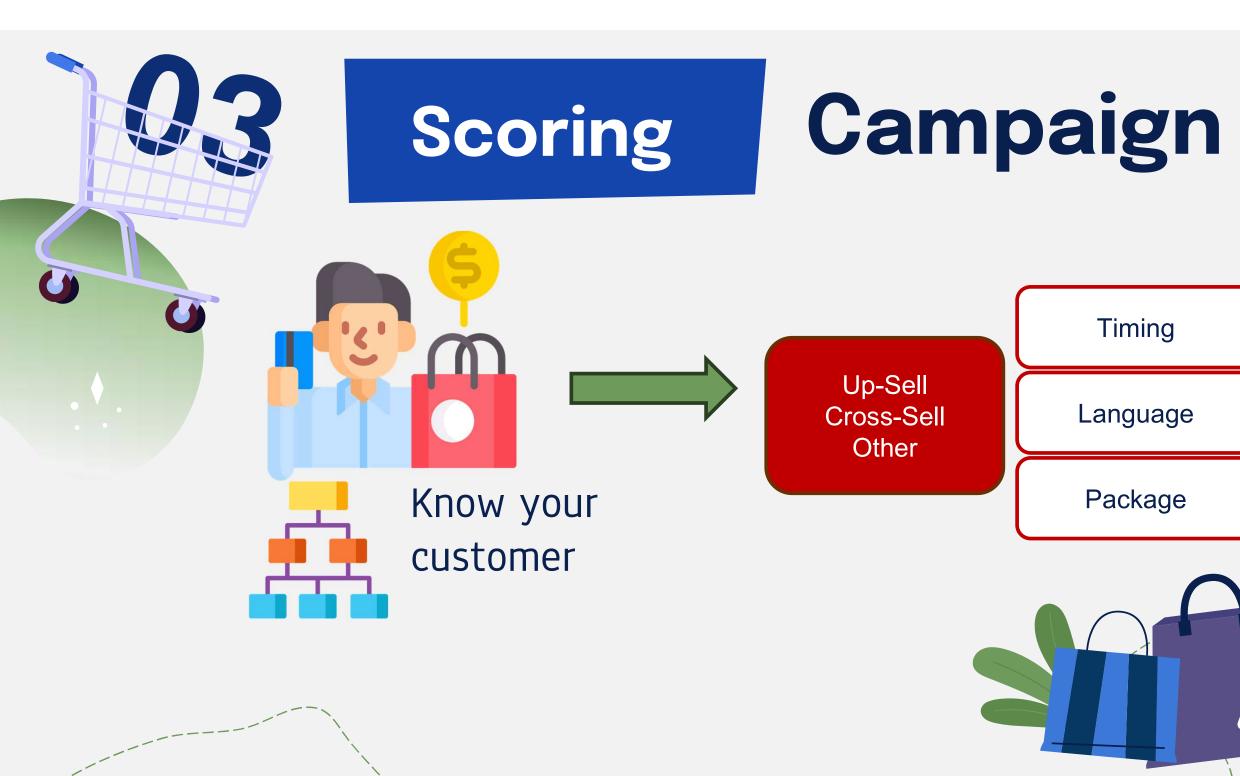




Competitor



Need prediction

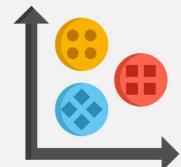


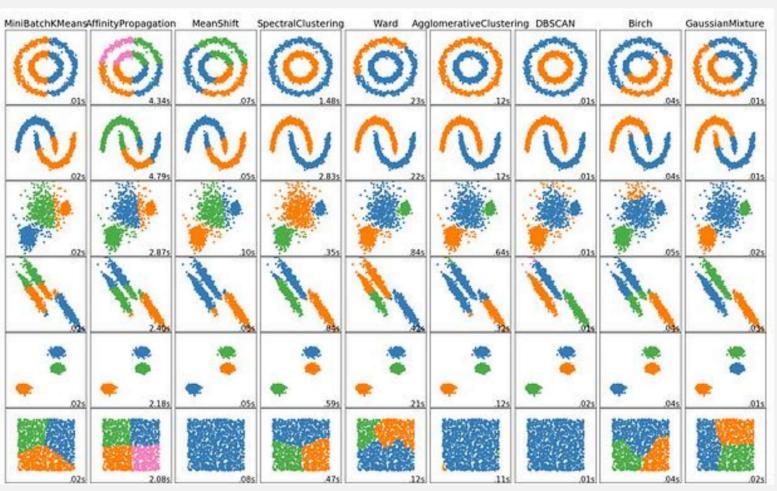
### Segmentation

# Clustering





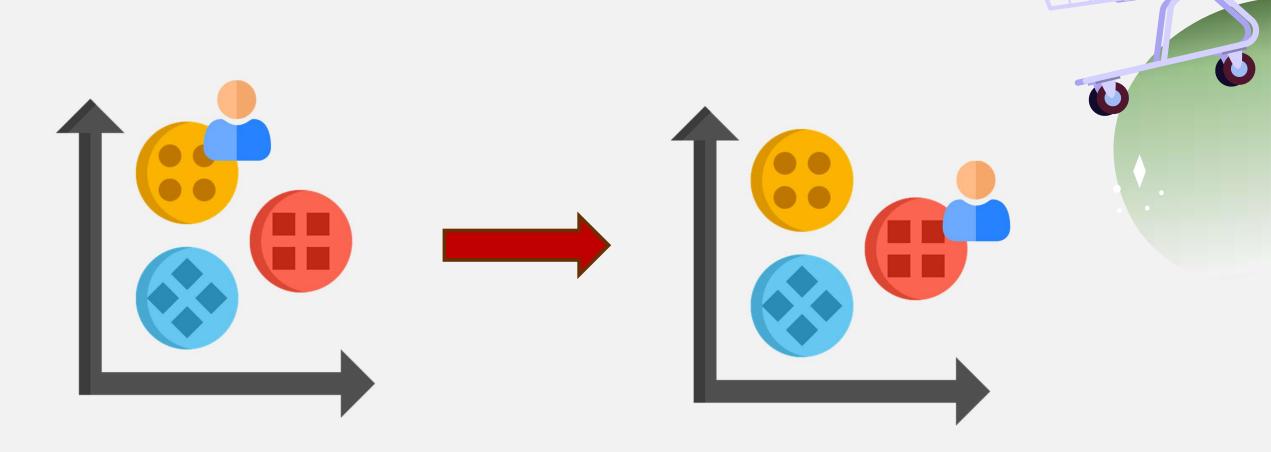






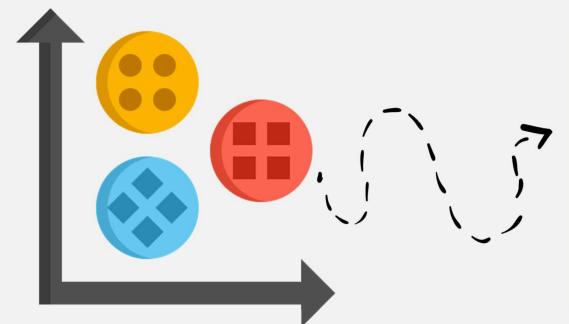
## Segmentation

### Segment Movement



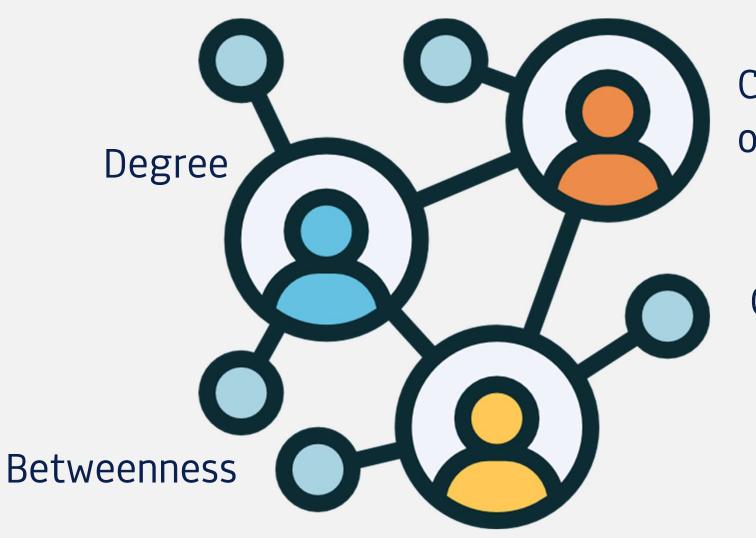


## Recommendation





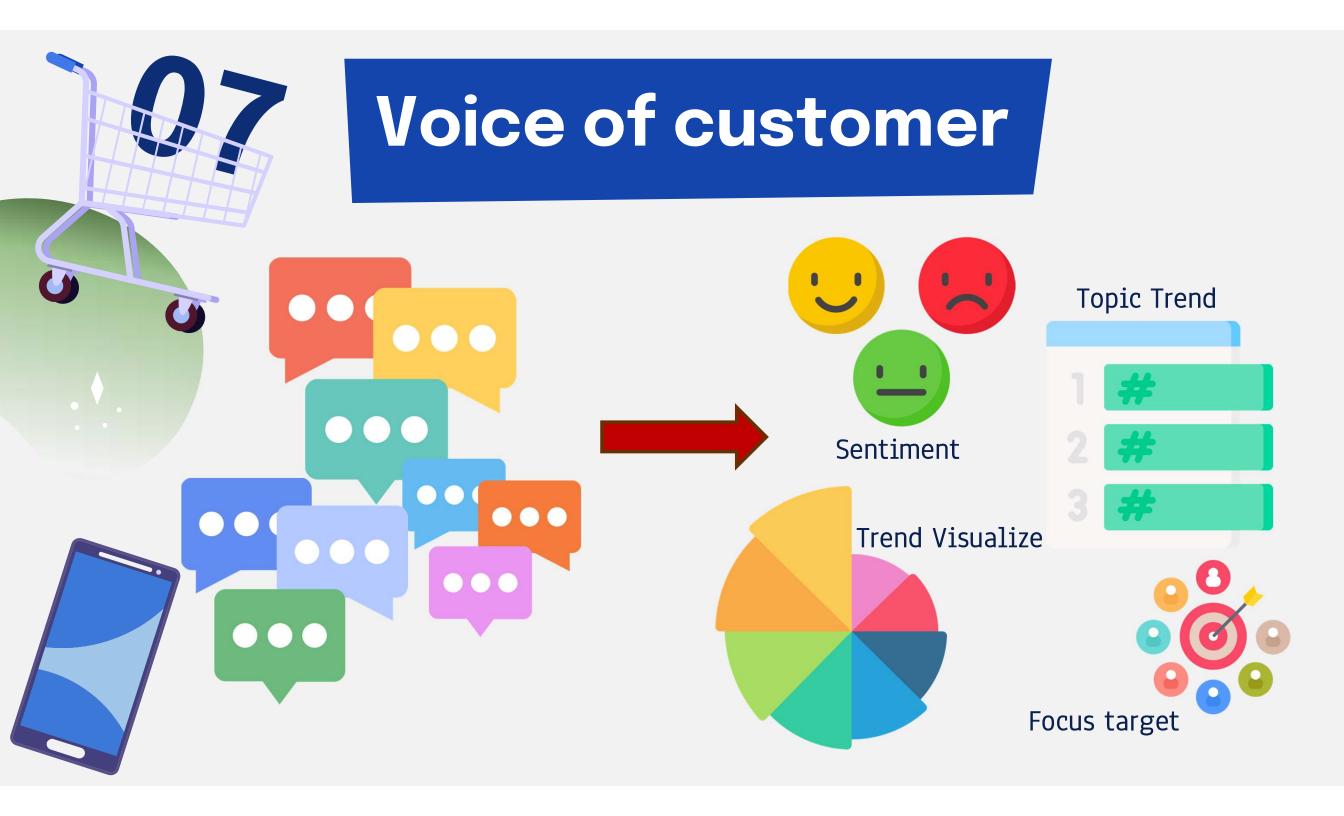
### **Social Network Analysis**



Connection overview

Closeness





### **Customer Analytics Step**



**Identify Problem, Target** 

**Identify Data and technic** 

**Analysis** outcome

**Implementation** 

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What is problem? What you need to know?

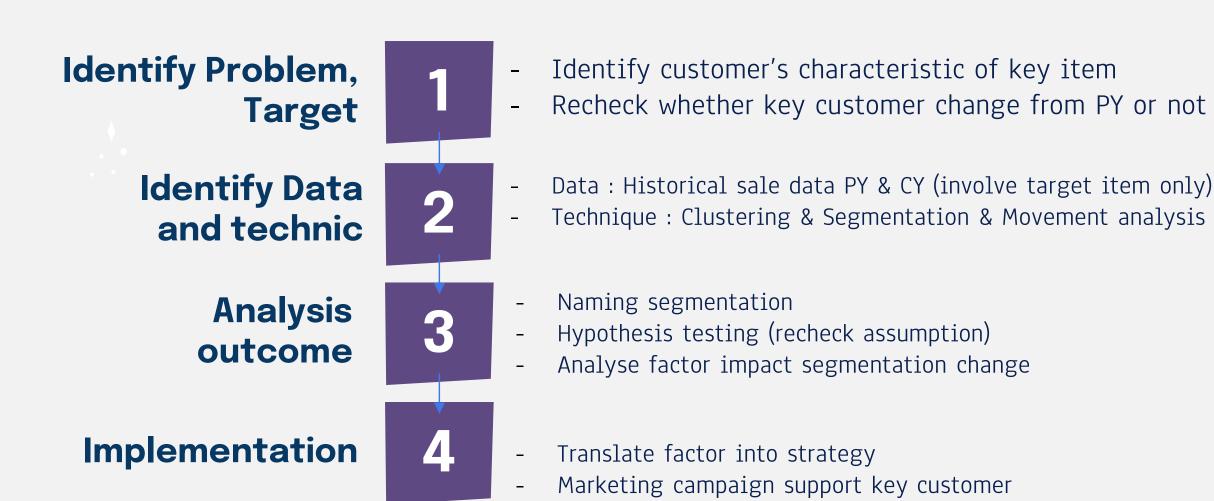
Which data and technique need to address problem?

Analyse result of analytics, adjust model to ensure the accurate of result.

Take action from your analysis

### Use case 1

### **Key customer of Target item**



### Use case 2

### **Product Interest of Key customer**



**KPI** 



# Key takeaway

Problem should be cleared

Choose the right data

Think about implementation

Hypothesis test and KPI of test result

