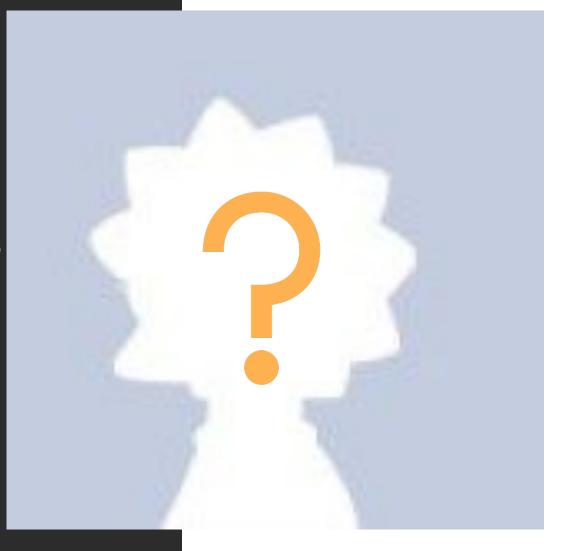
# Facebook Campaign Analysis

**Customer Profiling** 

for Campaign Conversion



Dimpho Mashile

Winter Cohort Final Project

December 19th, 2019



Industrial Engineering:

2013-2016

Creative
Direction:

2014-present

❖ Data Science: 2019 –

Present



Why?



Marry customer to the right ad or campaign: scale personalization





#### Why?

Save time and money by targeting relevant audience



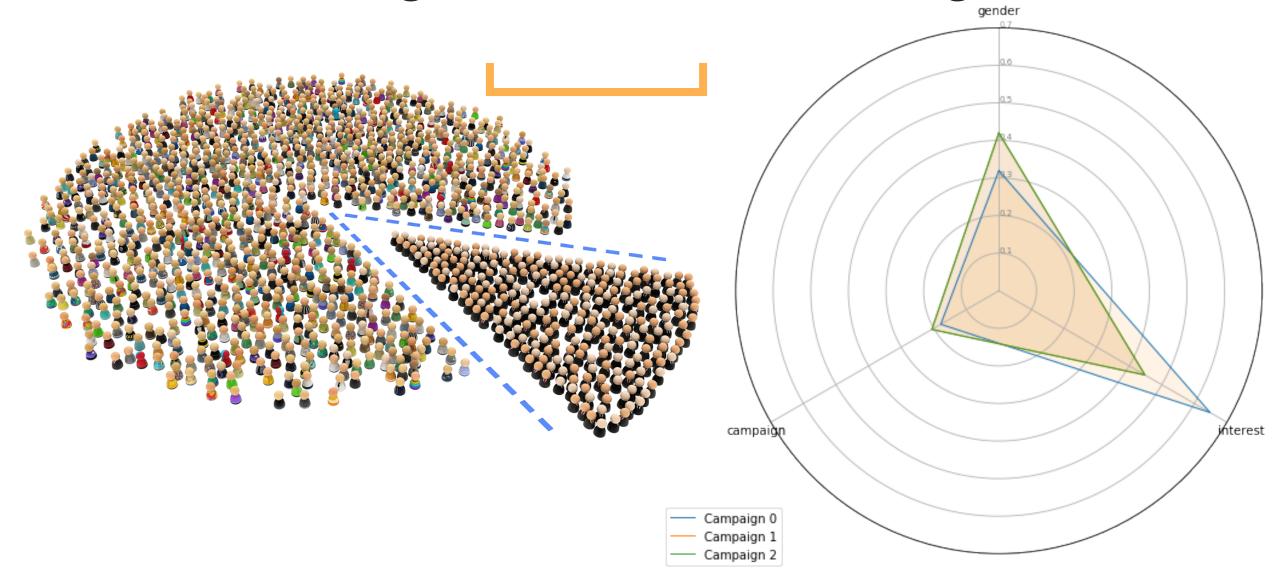
## Deep Fashion

#### **Project journey**



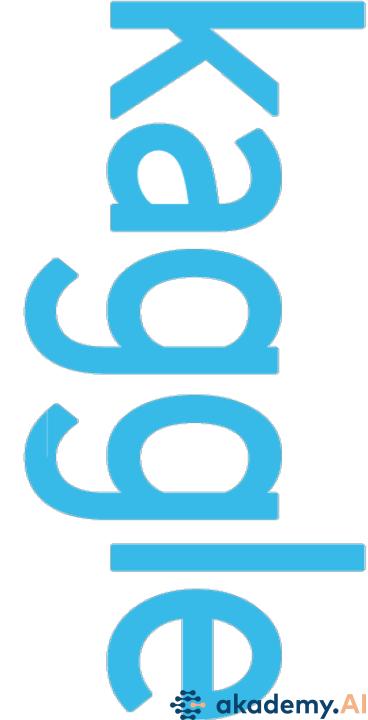


#### **Segmentation vs Clustering**



#### **About the Dataset**

- Sales Conversion Optimization: How to cluster customer data for campaign marketing
- Anonymous company donated Facebook analytics



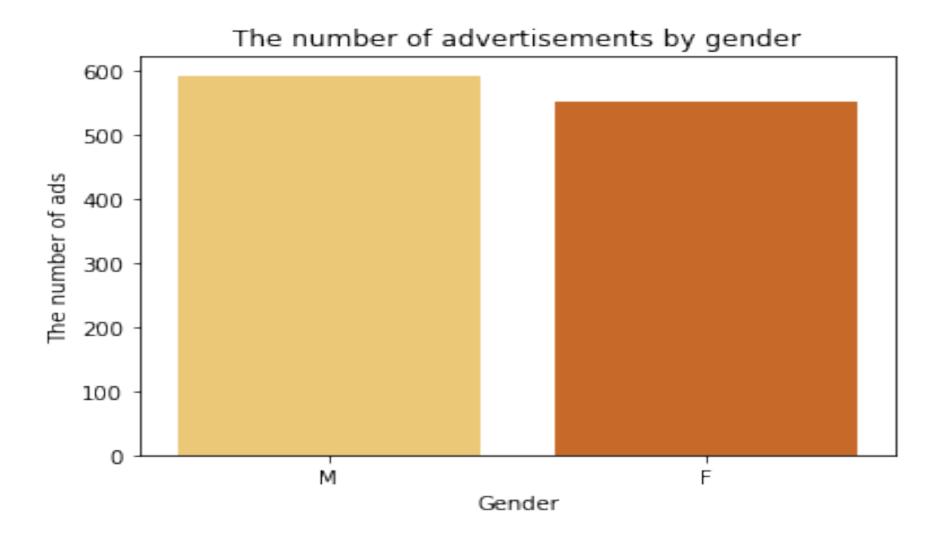


- 01 Very small
- Minimal prior interaction with it
- O3 Age Ranges, not samples

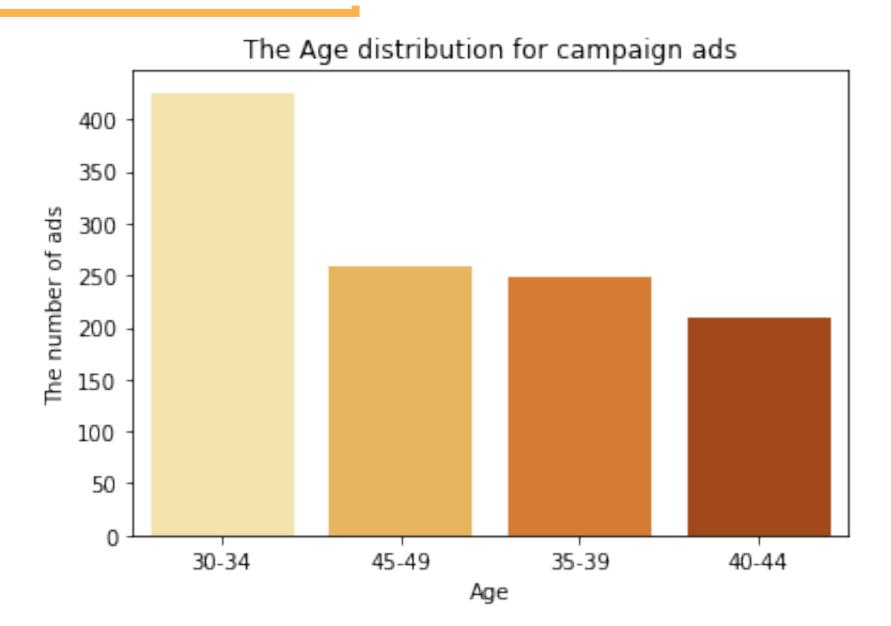
03 Few features

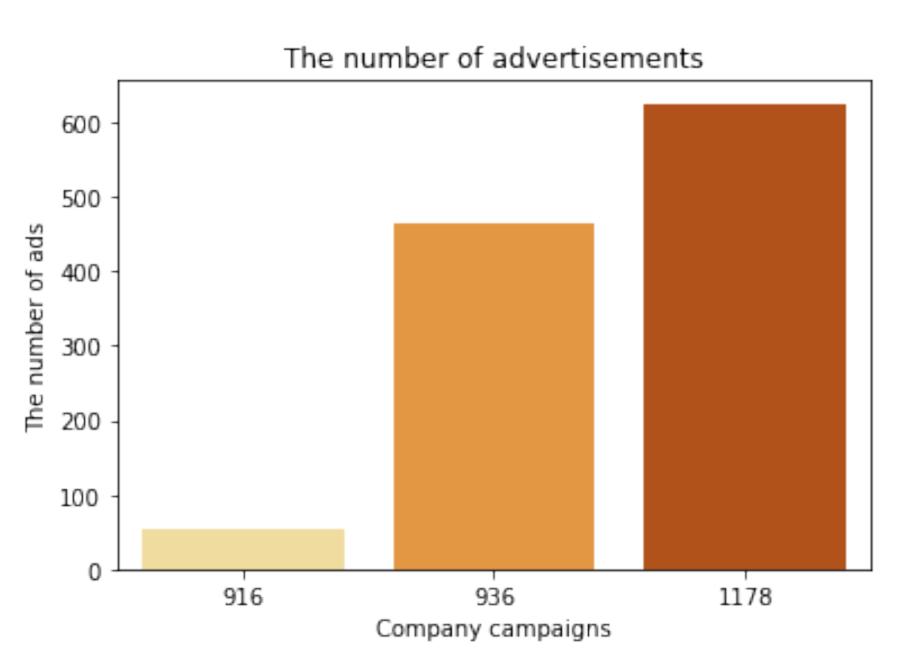
O4 Encoded Interests

#### **Gender Distributions**



#### Age Distribution



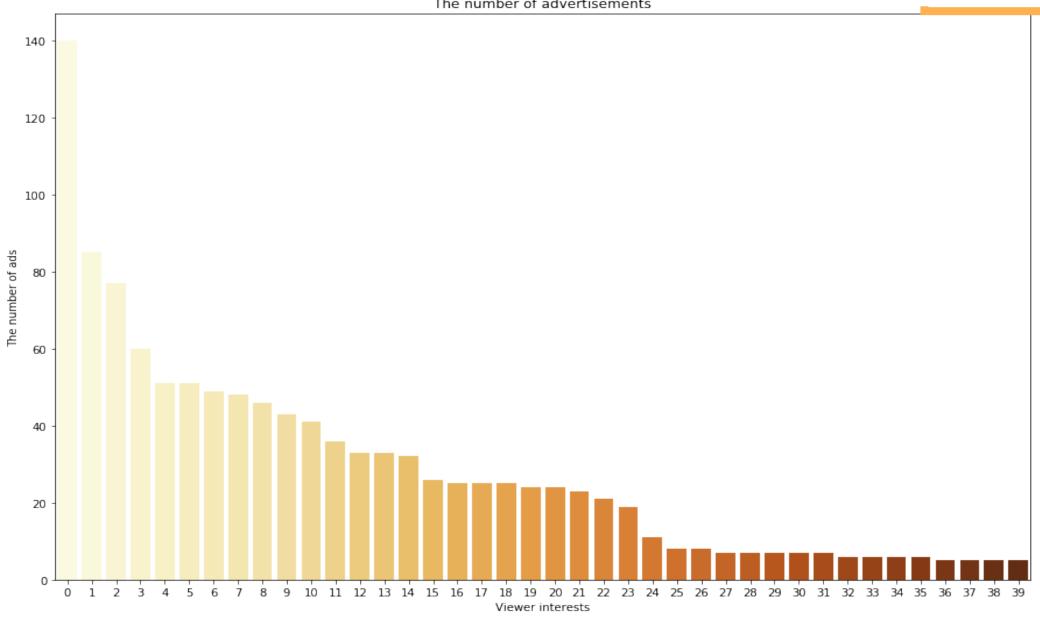


### Campaign Ad Distribution

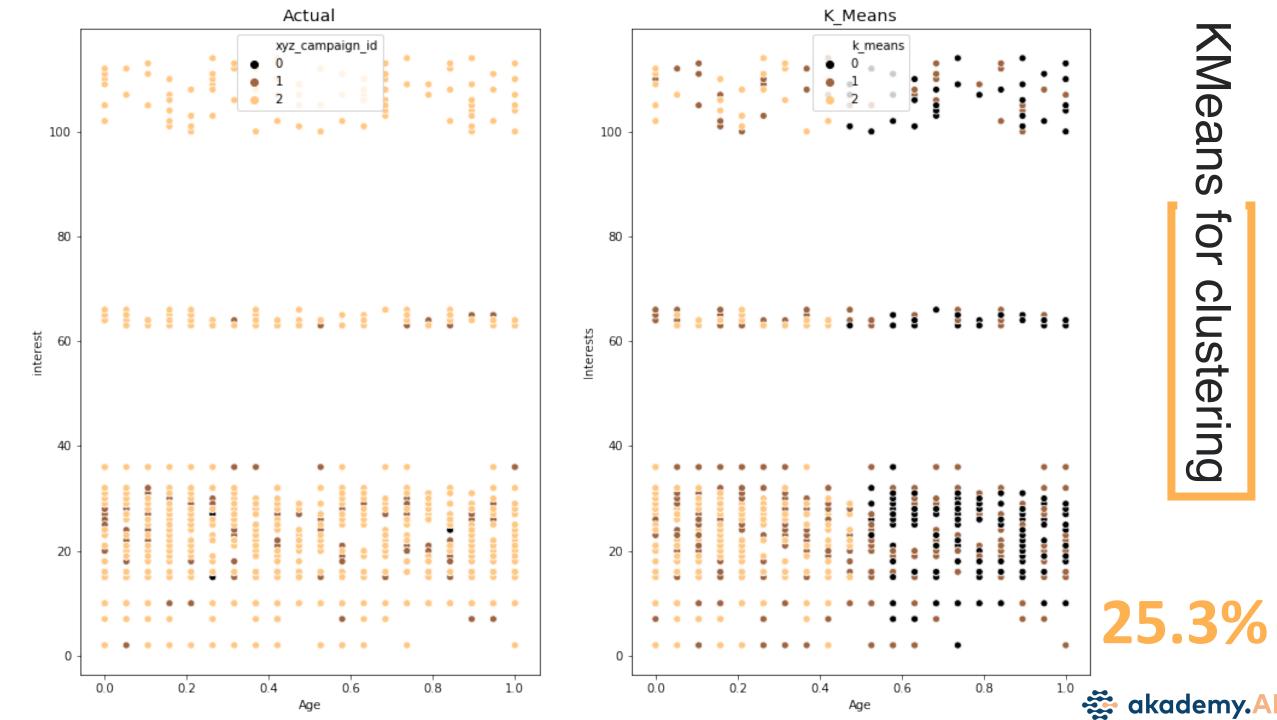


#### Distribution of interests

The number of advertisements







#### **Campaign Objectives**



Brand Awareness -

**Impressions** 

Consideration -

Clicks/Total

conversions

Sale - Approved

conversions

#### **Campaign Metrics**

	campaign_impressions_cost	click_through_rate	cost_per_click	conversion_rate	conversion_loss
0	0.310007	0.023399	1.324867	6.237917	0.629630
1	0.355967	0.024409	1.458352	15.810765	0.762931
2	0.271756	0.017609	1.543256	63.832741	2.875200

#### Can I predict a conversion?

