



USER BEHAVIOR MODALISATION IN MOBILE ADVERTISING

Faustine BOUSQUET, El hassan DAOUDI, Samy ZAROUR

Joseph AKA BROU
Marwa ELATRACHE
Caroline MARTIN
Tharshika NAGARATNAM
Omar SECK



Outline

1. INTRODUCTION

3. DATA EXPLORATION

2. DATA PRESENTATION

4. DIFFICULTIES

5. PERSPECTIVES & CONCLUSION



AD
YOU
L I K E.

Who is TaBmo?

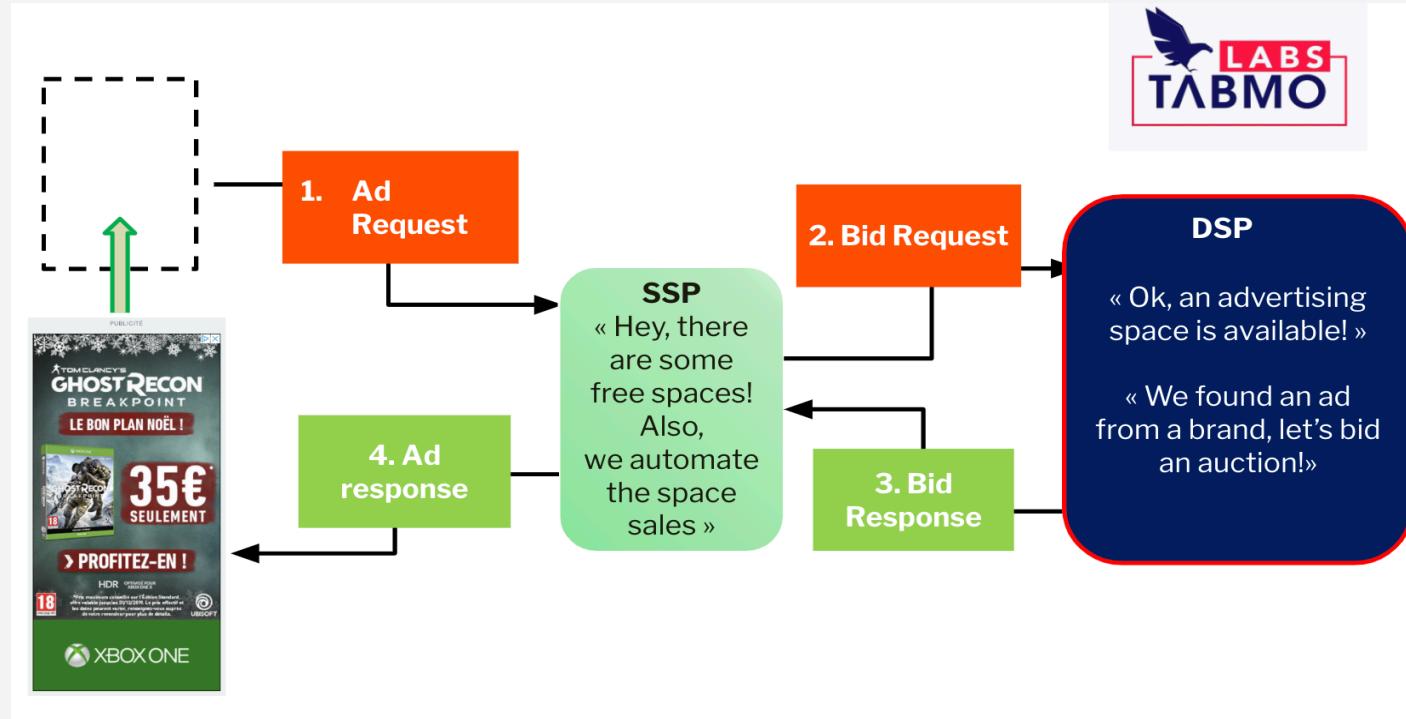


- Adtech company
- Set up in 2013



Main missions

- DSP - Demand Side Platform
- Broadcast ads on mobile

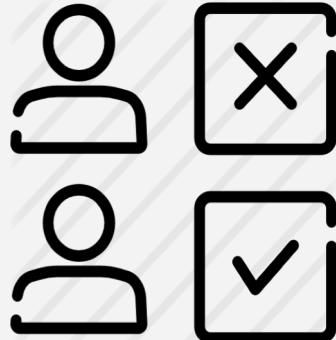
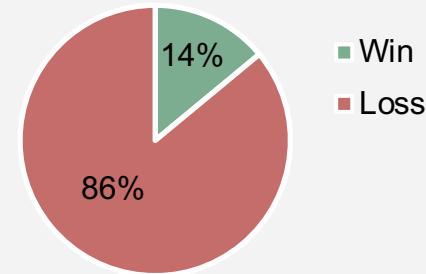


Key values

500 000 Bid Request

500 Bid Response

70 Win \Rightarrow 14%



Will a user click on the ad?

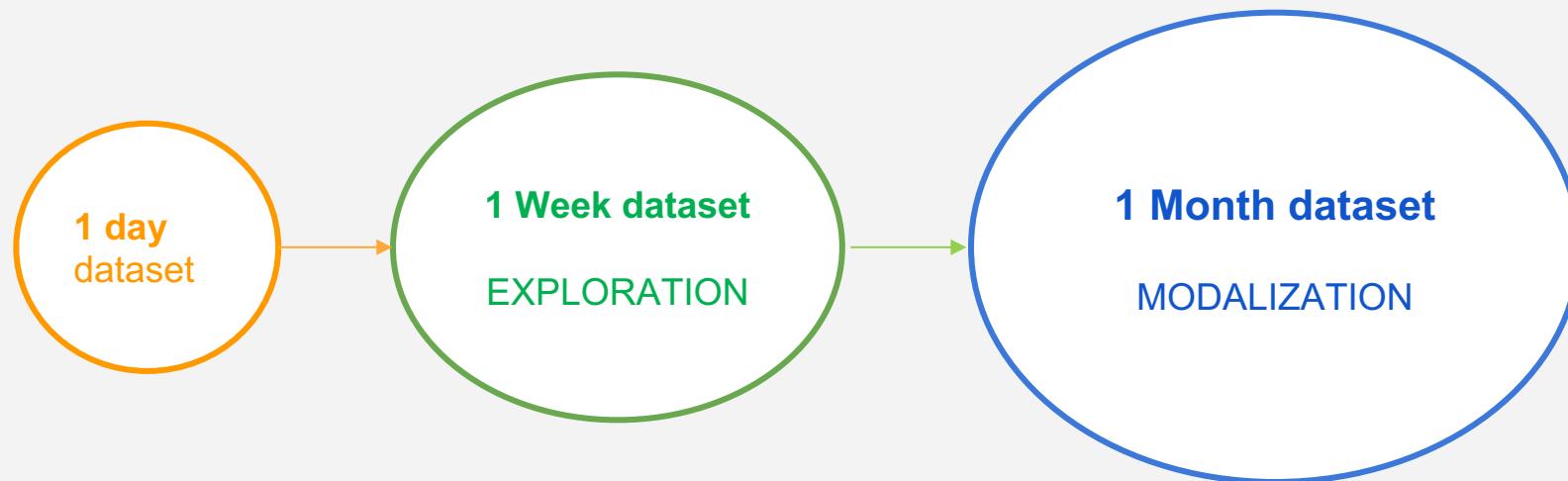
Geographic

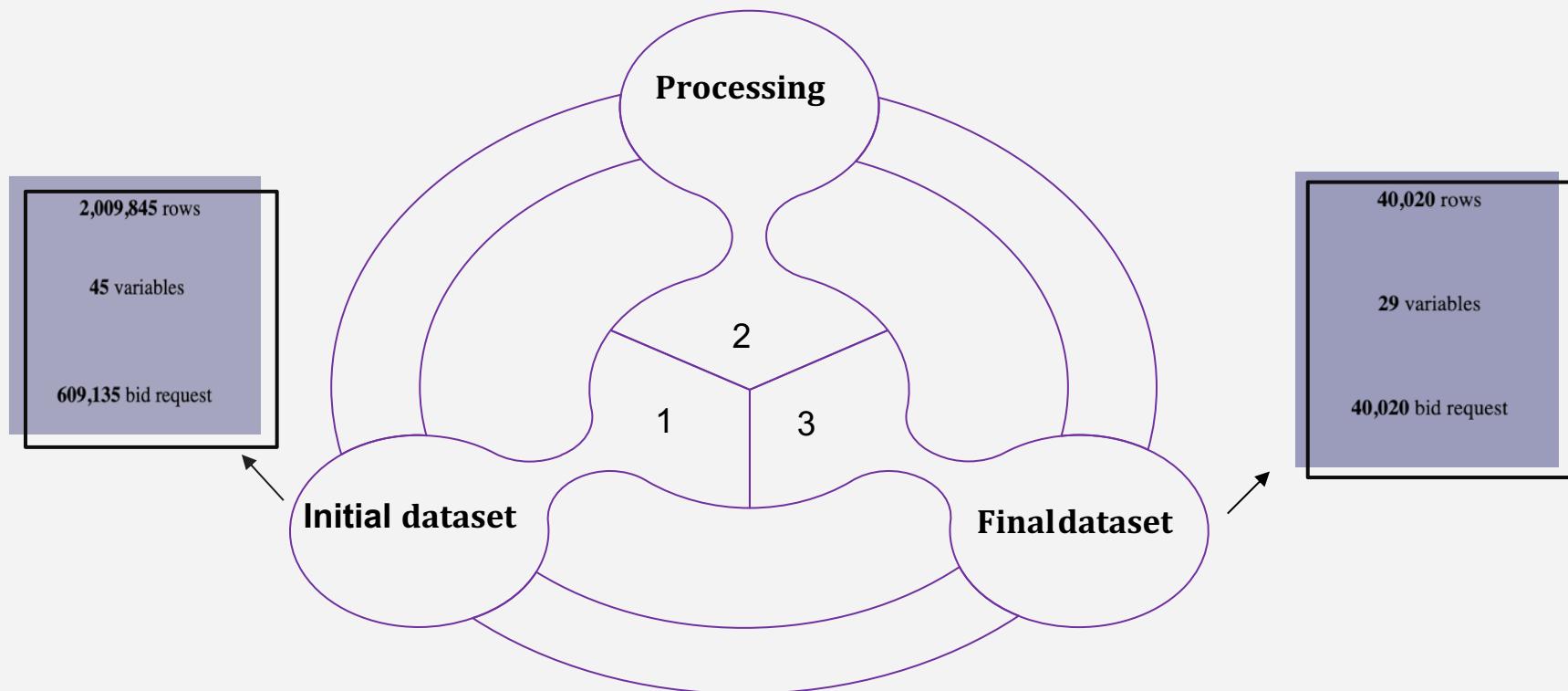
Device

Time

RTB

Front-end







What is a Shiny App?

Why use a Shiny App?

Live Demo

Multiple Correspondance Analysis



What is the goal?

- Identify a group of auctions with similar profil
- Identify the association between categories
- Keep the most contributing variables
- To visualize and synthesize the information



MCA steps

- Retrieve cleaned data
- Compute the MCA
- Choose the number of dimension
- Interpret the visualizations
- Study the groups of variables



Our issues

- Low inertia (less than 1%)
- Complex data
- Large volume of data
- Lack of computing power



Data
comprehension

Cleaning

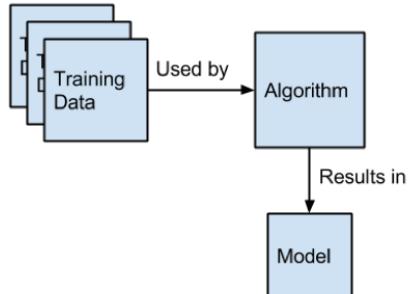
Complex
feature
engineering

Huge data /
Long
computing

- What do these variables mean?
- What variables are useless and why?
- Incoherence of data
- Data aggregation
- How can we handle these conflicts?
- What transformation should we apply?
- High number of modalities for some variables

Predictive model

- SVM
- Logistic regression
- Random forest



Fraud detection

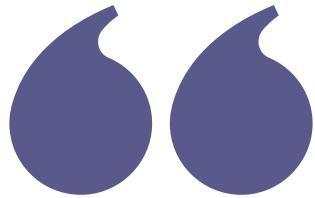
- Click farms
- Ad stacking
- Pixel stuffing
- other frauds



Computing power

- Huge amount of data
- Time consuming





Thank you for your attention

