

Capstone Project

Perfumes Ratings

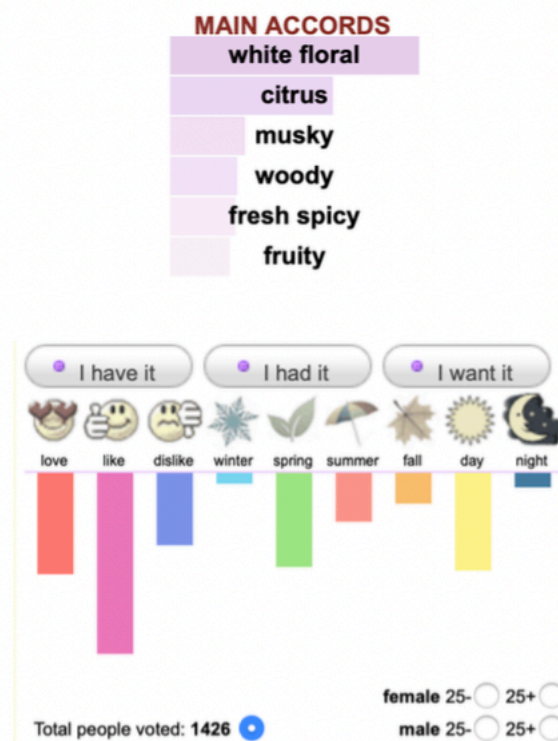
Worked by Kalina Zeligowska Serej

Fragrantica.com is a portal for perfume lovers.

Is consists of three main segments :

- a catalogue of perfumes
- an independent magazine on this subject
- **a community - users who comment, discuss and assess perfumes**

Love Story Chloé for women

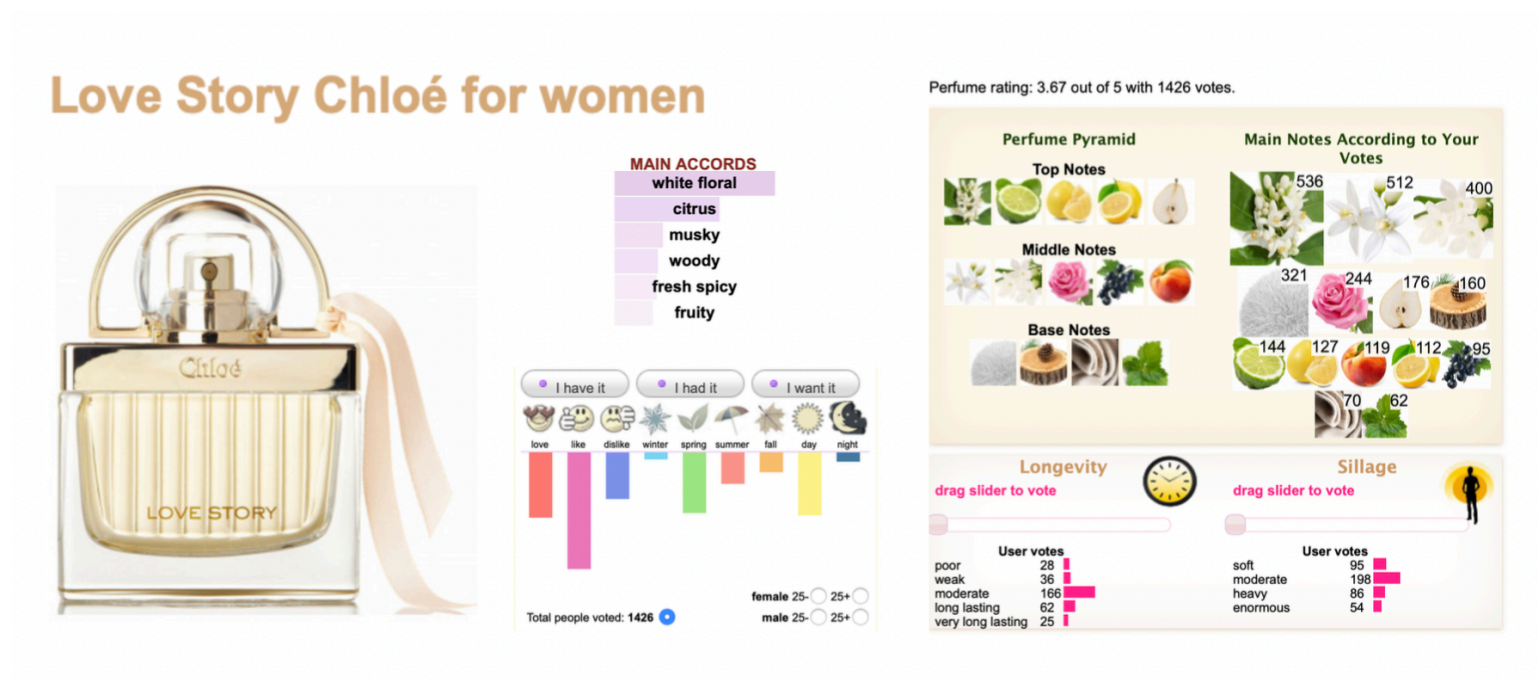


Perfume rating: 3.67 out of 5 with 1426 votes.



The dataset which I worked on includes information scraped off fragrantica.com
I took it from kaggle.com as a ready-to-use csv file

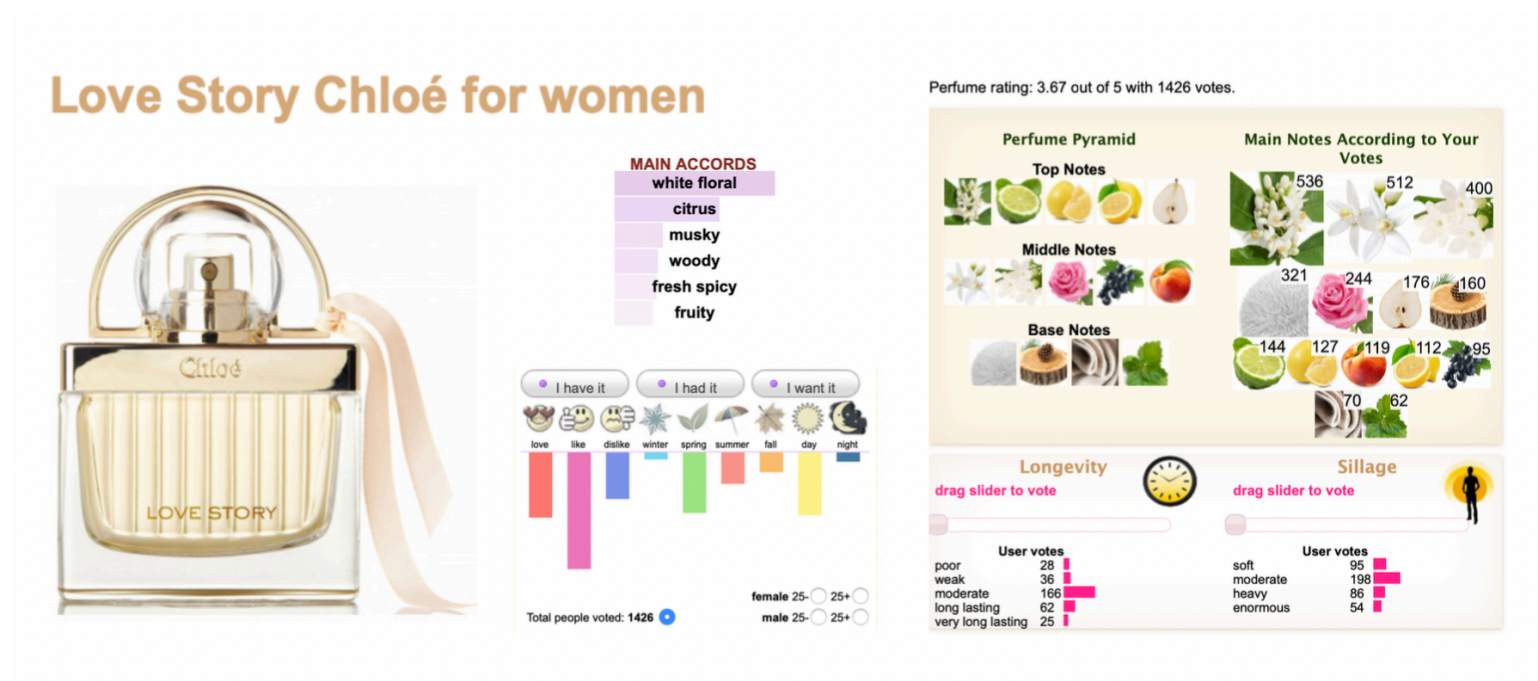
What is inside?



The dataset which I worked on includes information scraped off fragrantica.com
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What is inside the data?

Each bottle of fragrance is described
by several parameters



Title

Love Story Chloé for women



MAIN ACCORDS

- white floral
- citrus
- musky
- woody
- fresh spicy
- fruity

Longevity
drag slider to vote

Sillage
drag slider to vote

Perfume Pyramid

Top Notes

Middle Notes

Base Notes

Main Notes According to Your Votes

User votes

love like dislike winter spring summer fall day night

Total people voted: 1426

female 25- 25+ male 25- 25+

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poor 28 weak 36 moderate 166 long lasting 62 very long lasting 25

soft 95 moderate 198 heavy 86 enormous 54

Title

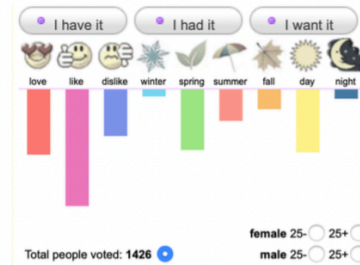
Main accords

Love Story Chloé for women



MAIN ACCORDS

white floral
citrus
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woody
fresh spicy
fruity



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Title

Main accords

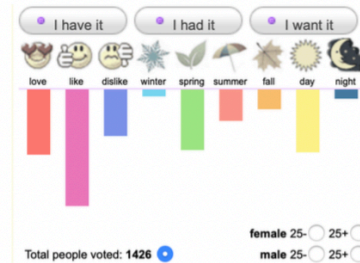
Rating score

Love Story Chloé for women



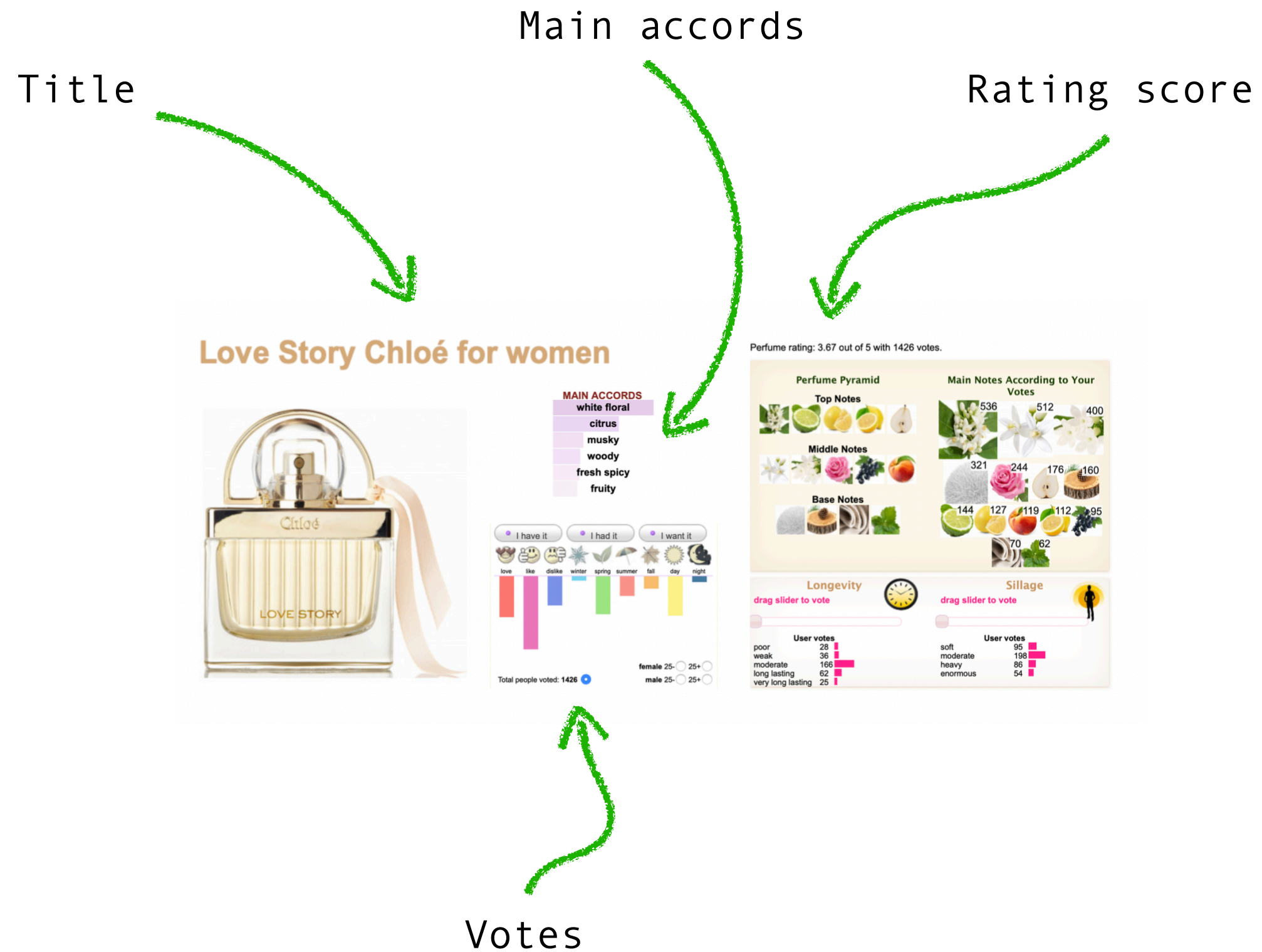
MAIN ACCORDS

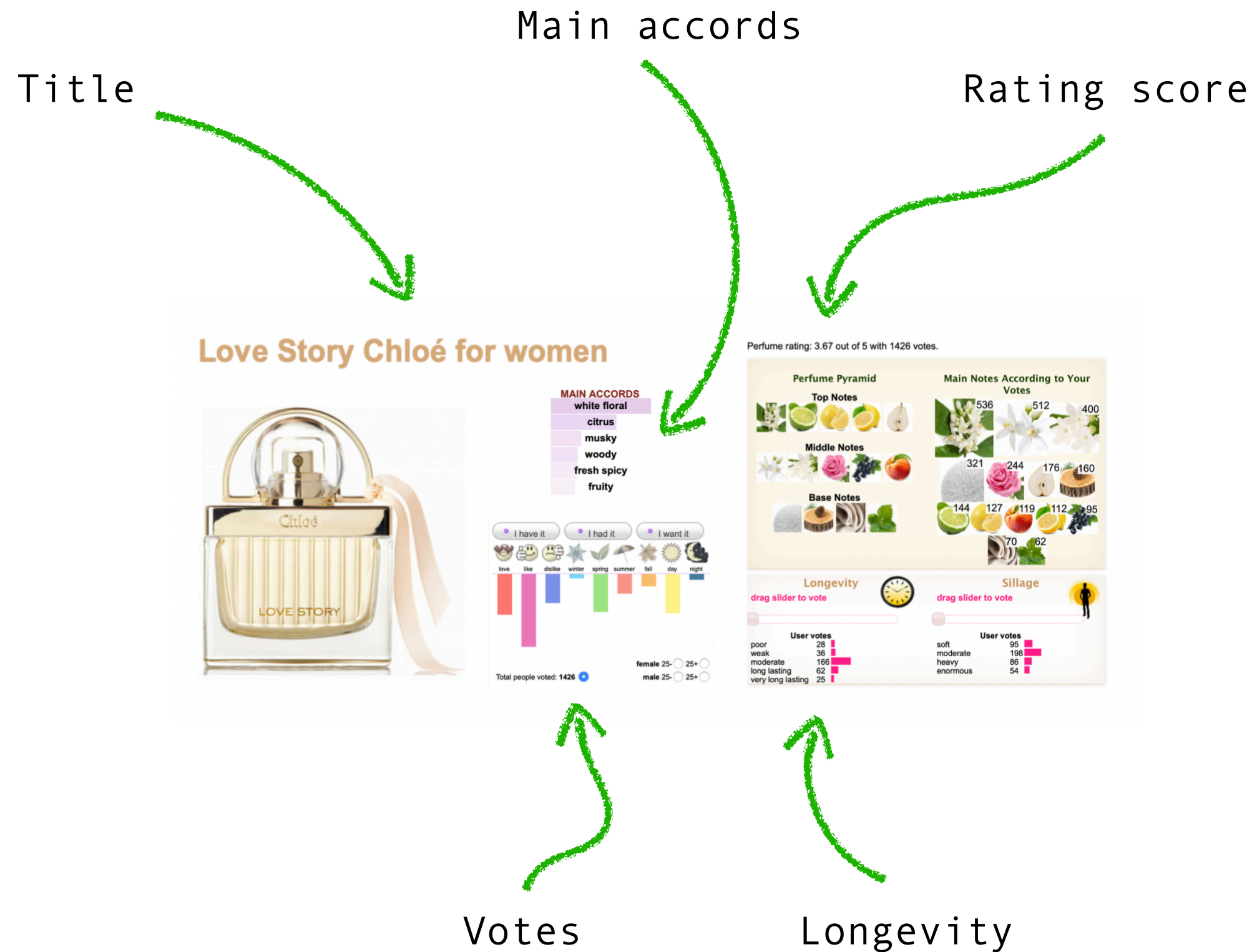
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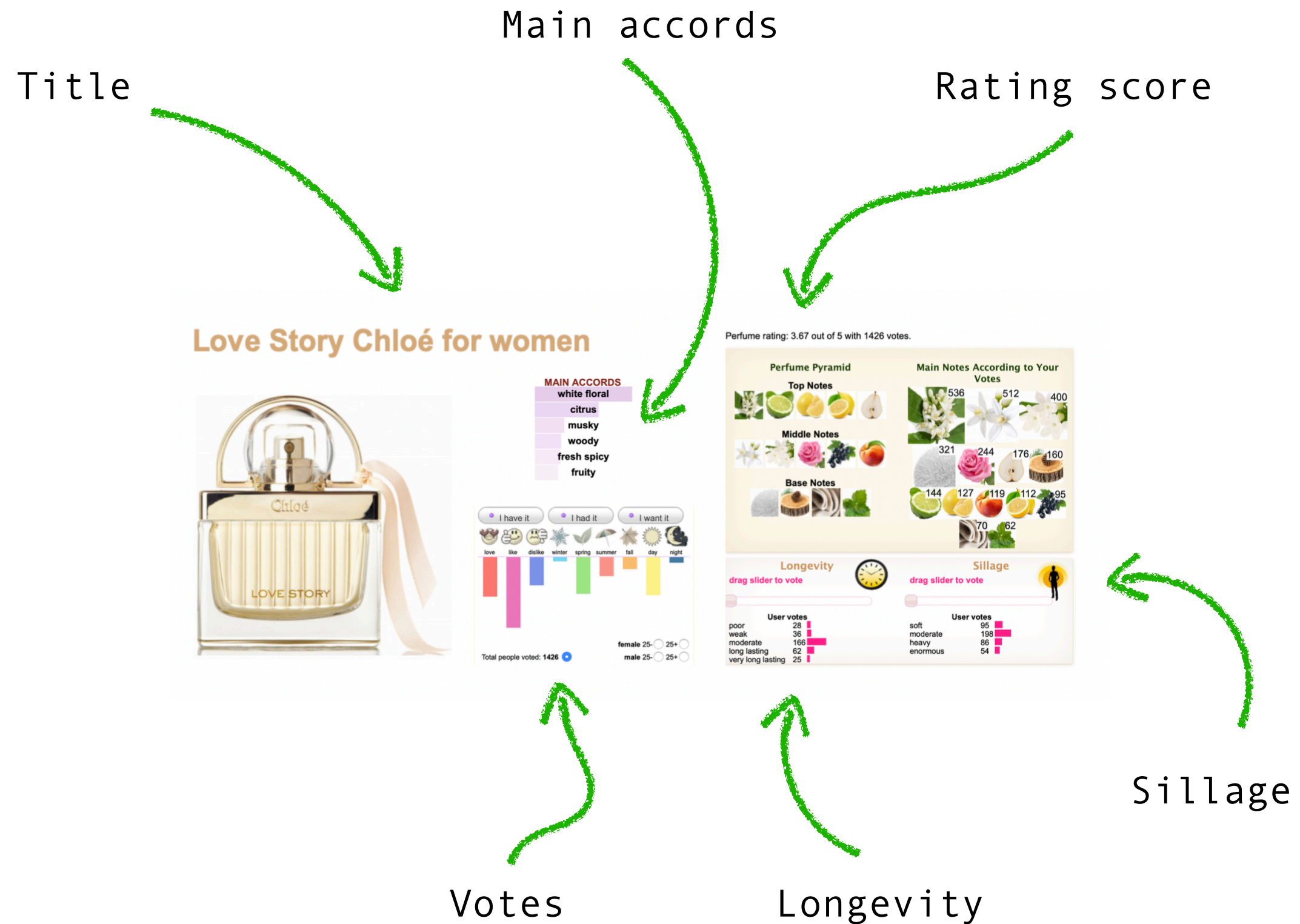


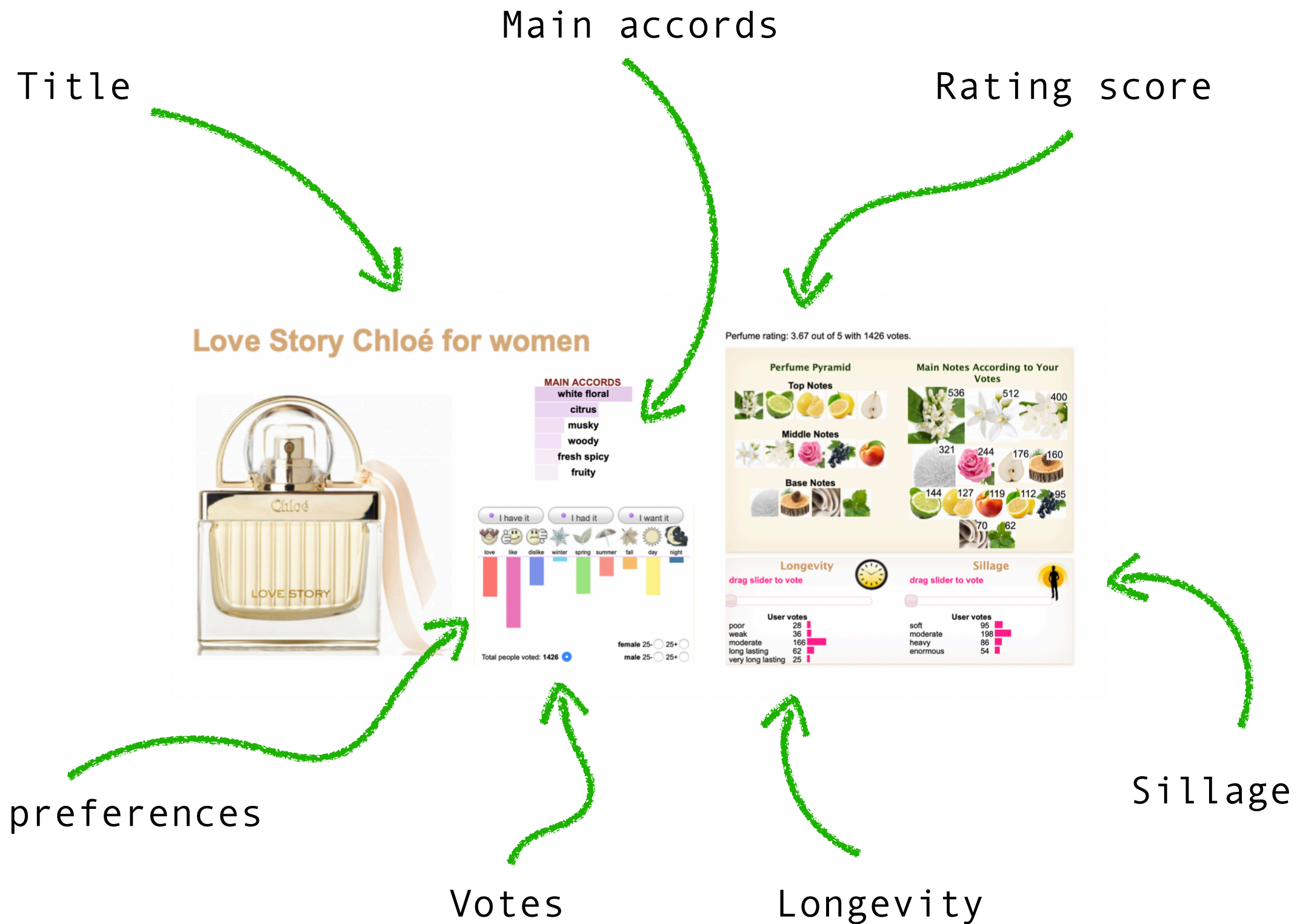
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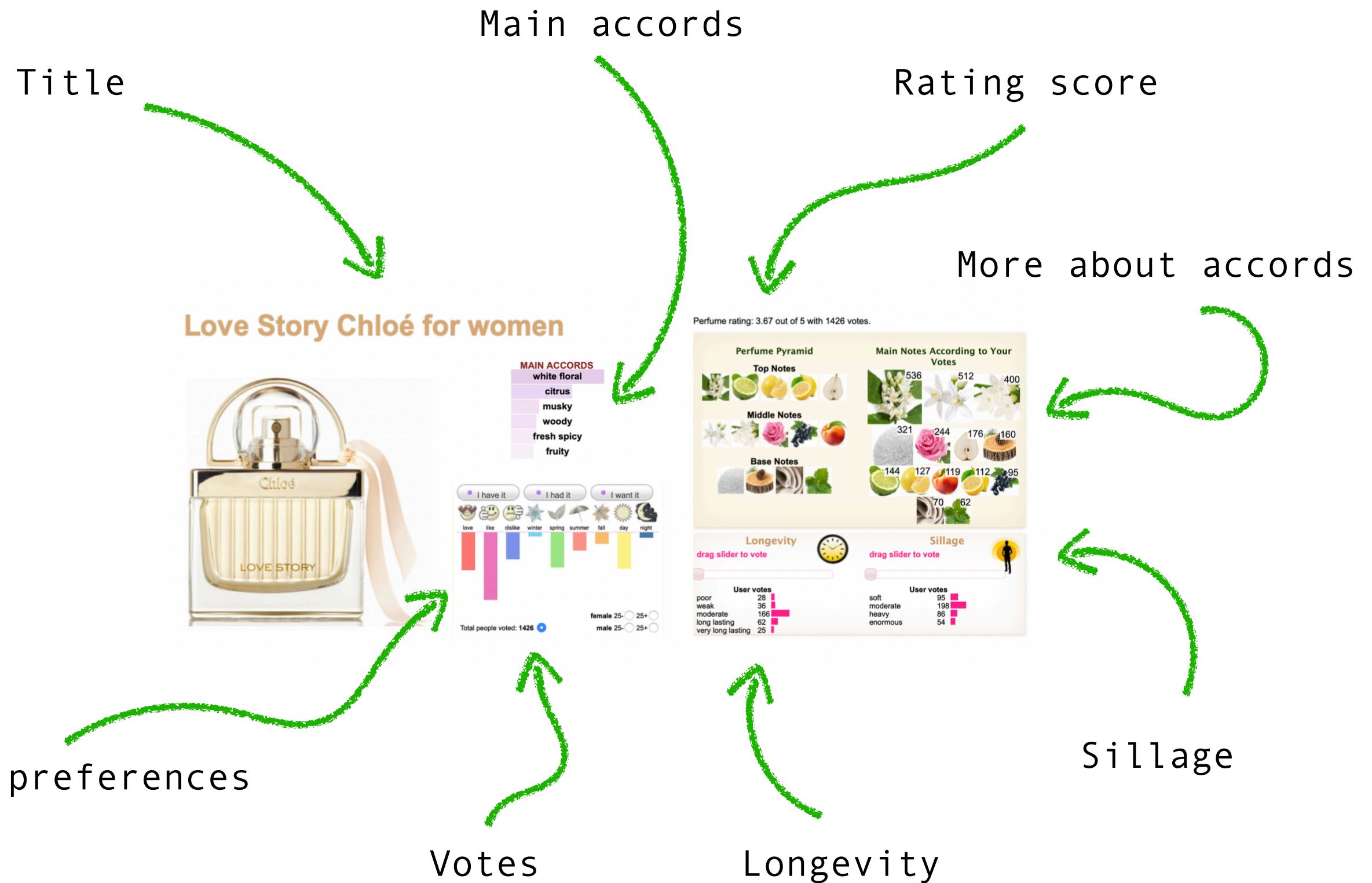


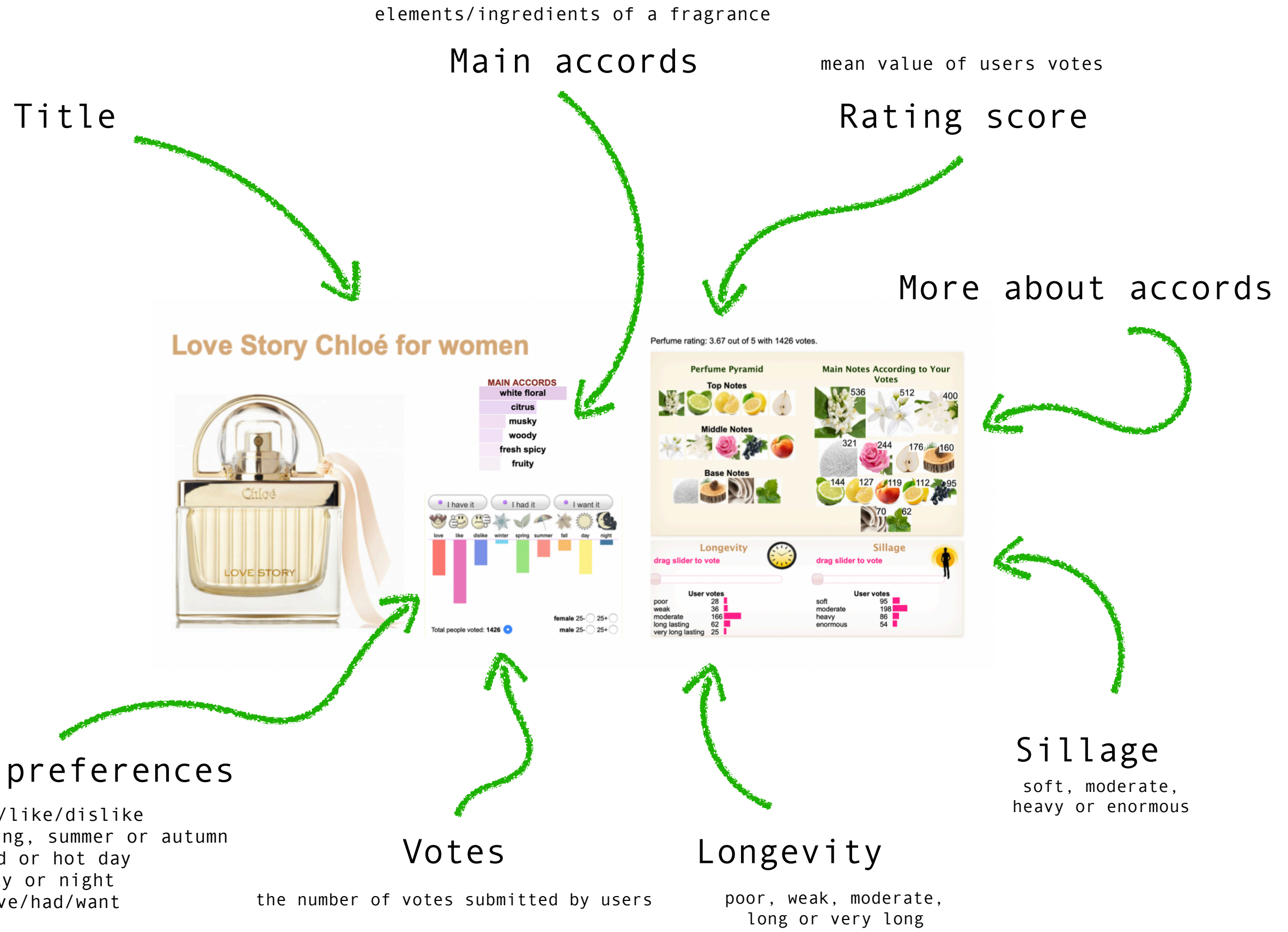












What I used it for?

What I used it for?

I created

a statistical model

making predictions on perfumes ratings

The steps of my project are the following:

1.Data cleaning:

The biggest issues:

- correctly understanding the data and the way it was collected
- unifying all variables
- deciding which variables are valuable

2.Modelling

The biggest issues:

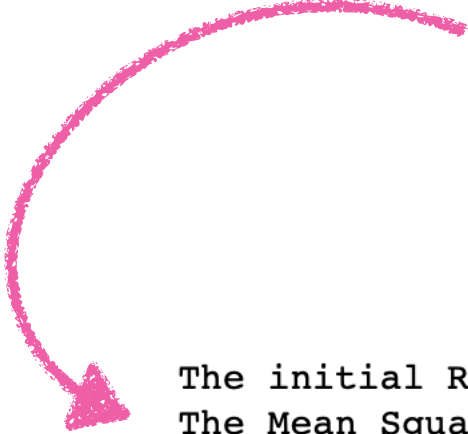
- models understanding
- checking multicollinearity

Modeling (so far):

- 1. Linear Regression Model as a baseline model**
- 2. Lasso**
- 3. Ridge**

Modeling (so far):

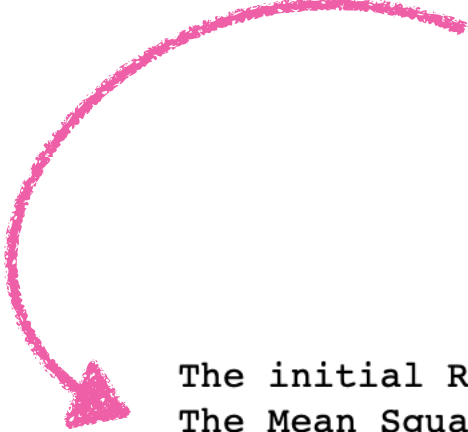
1. **Linear Regression Model as a baseline model**
2. **Lasso**
3. **Ridge**



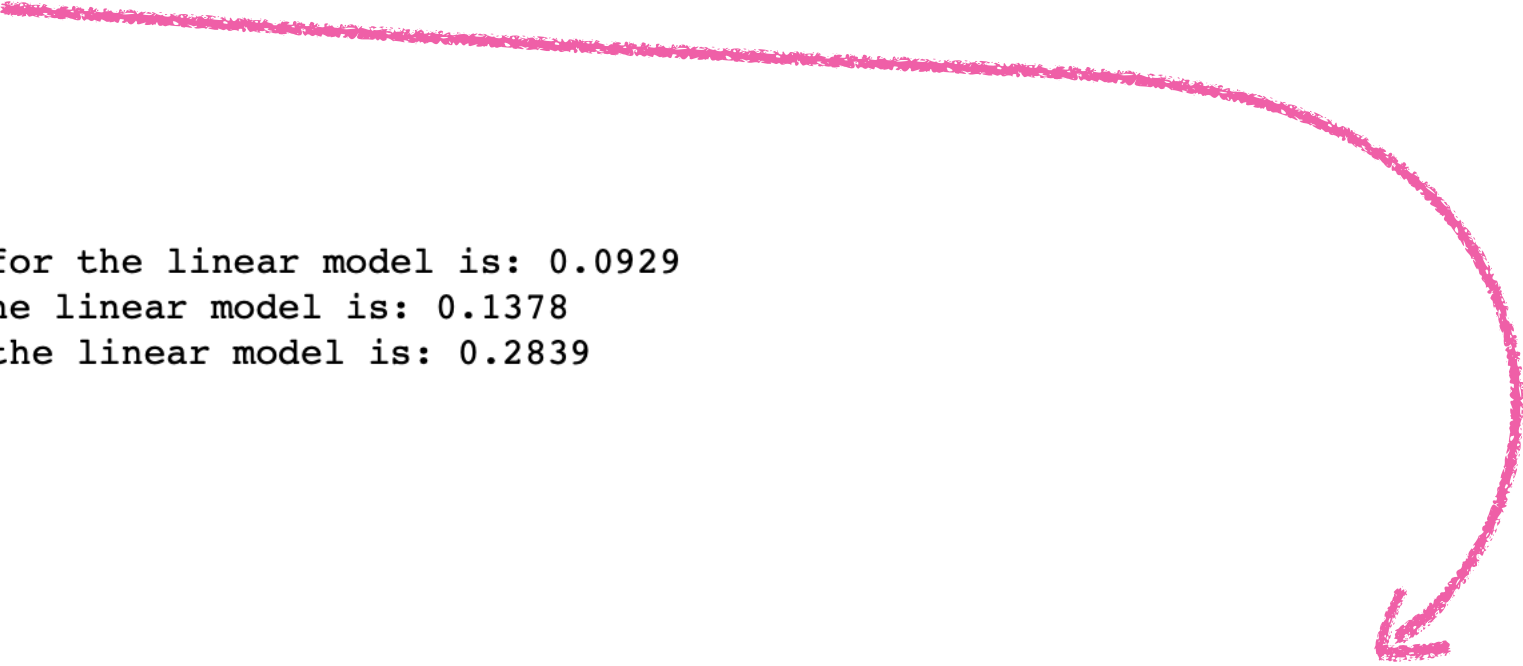
The initial R-Squared value for the linear model is: 0.0929
The Mean Squared Error for the linear model is: 0.1378
The Mean Absolute Error for the linear model is: 0.2839

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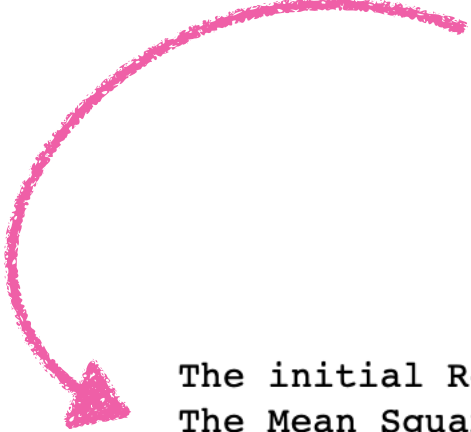
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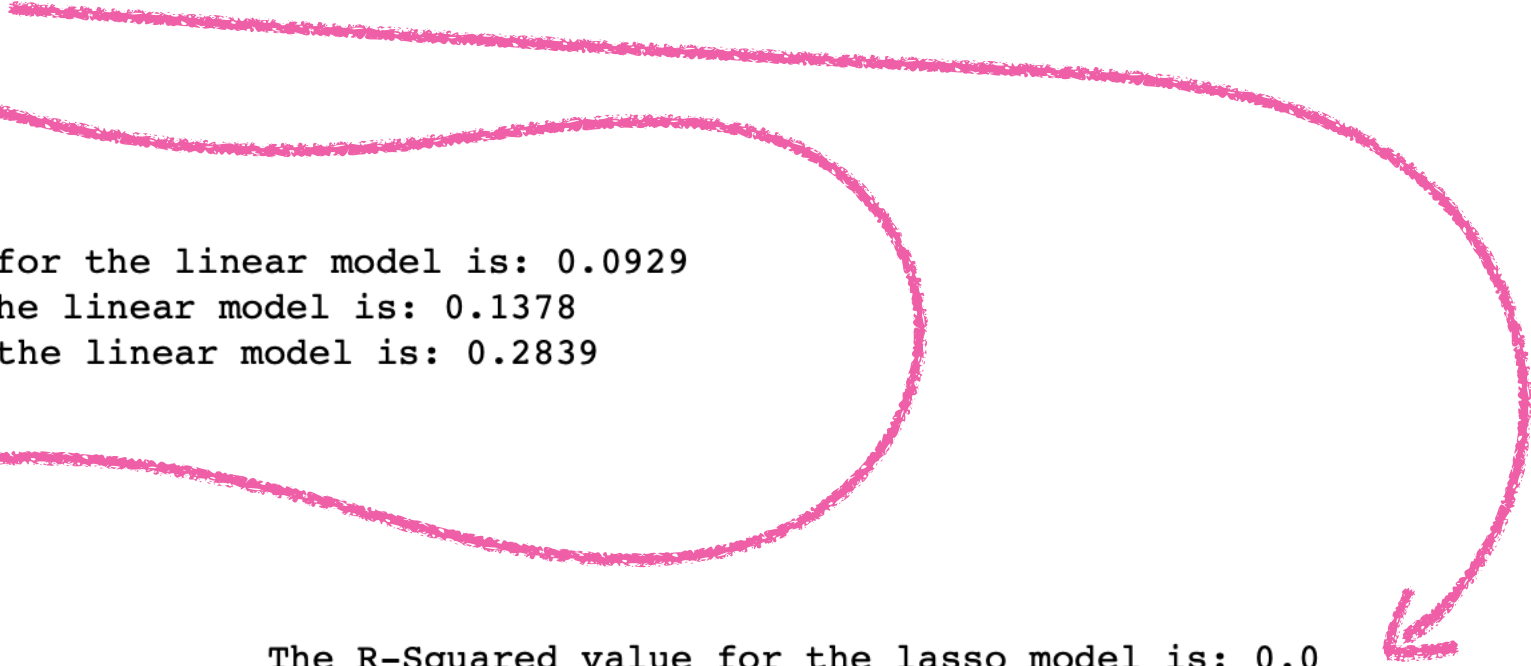
The R-Squared value for the lasso model is: 0.0
The Mean Squared Error for the lasso model is: 0.1519
The Mean Absolute Error for the lasso model is 0.301

Modeling (so far):


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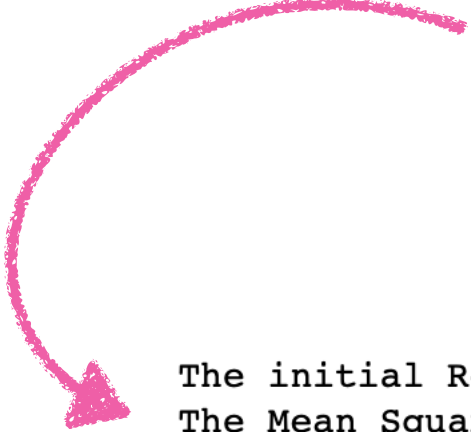
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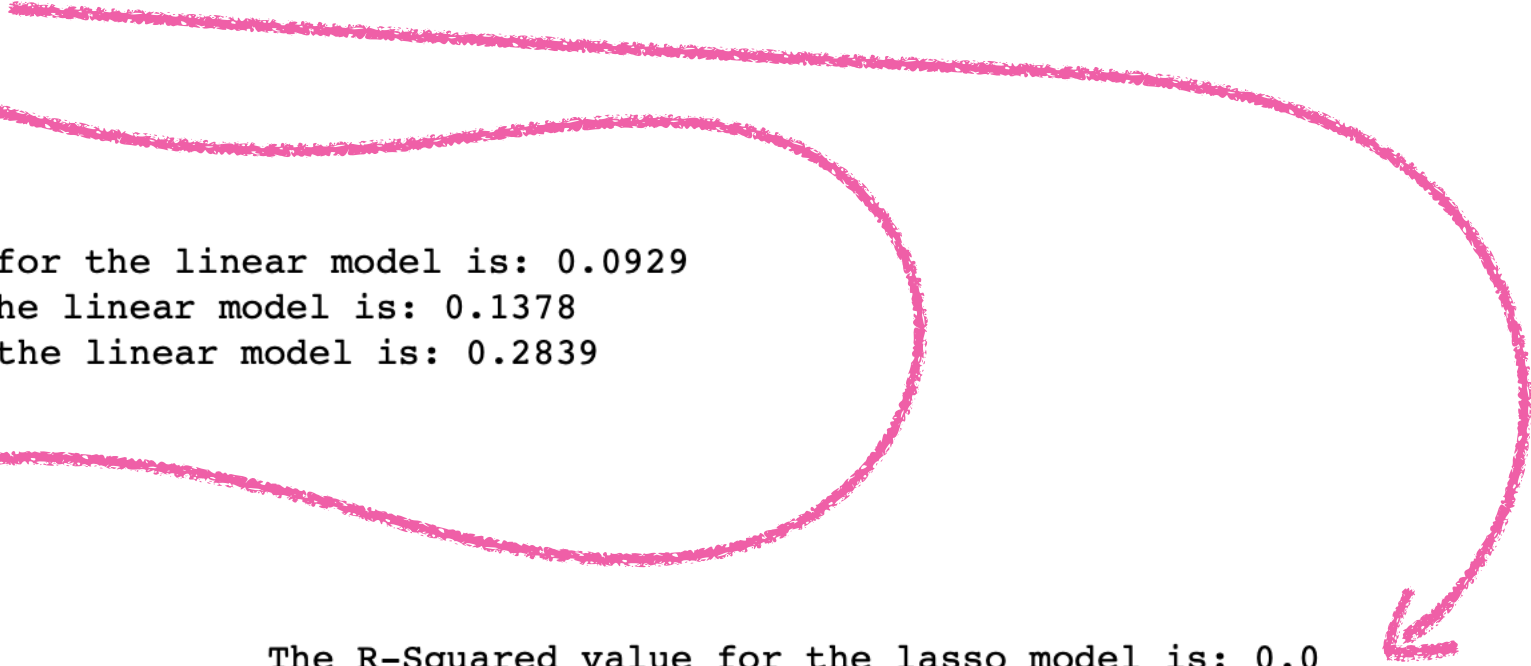
The R-Squared value for the ridge model is: 0.0943
The Mean Squared Error for the ridge model is: 0.1376
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The Mean Absolute Error for the ridge model is 0.2836

So far, the Ridge model has the highest R^2 value so this can be used in future modelling.

Thank you!

Fell free to contact me:

kalina.zeligowska@gmail.com