

Profiling application users

Meeter

Presentation and visualization of results

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GOAL

Characterizing the group of potential users to whom ads can be targeted

Data analysis process

Exploratory Analysis

Output: 551 subjects

Tool: Sweetviz, correlation matrix

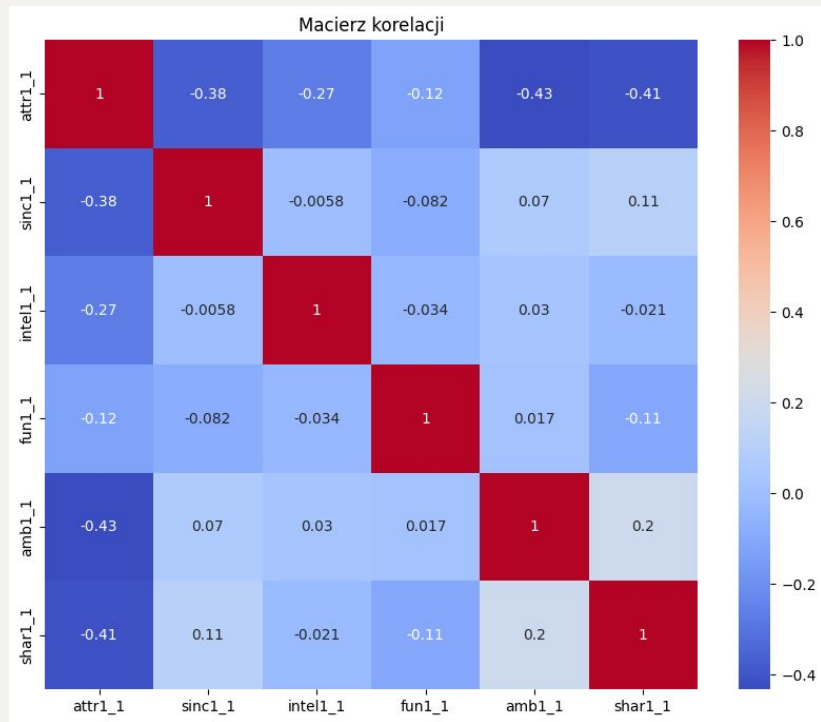
Purpose: Understanding data distribution, identifying missing values, basic descriptive statistics.

Data Preparation

Removing duplicates and filling missing values (filling gaps with zeros).

Data standardization with StandardScaler

Data selection



Fun Feature

Clustering Method

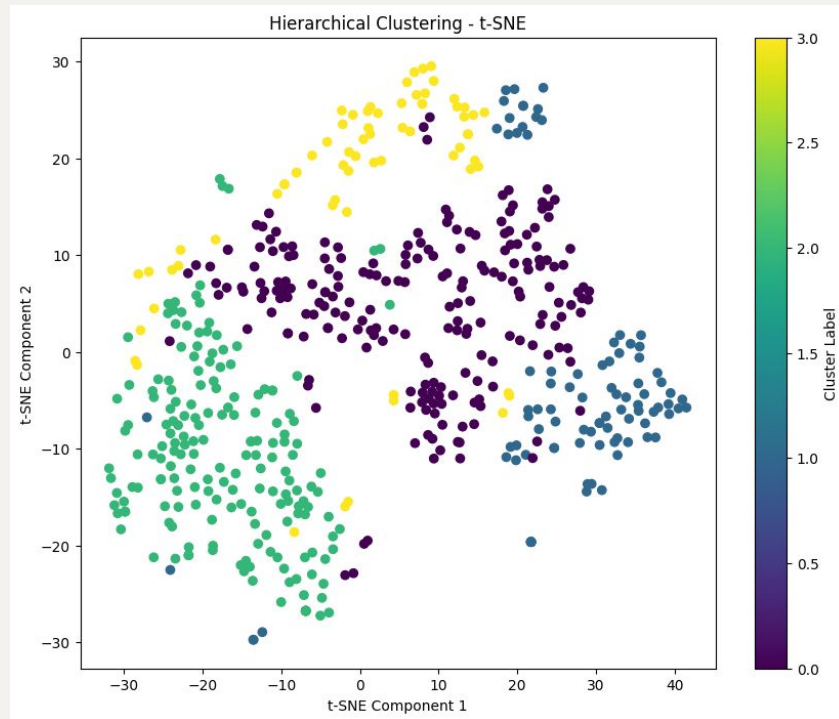
Algorithm: Hierarchical Clustering (Agglomerative Clustering).

Number of clusters: 4.

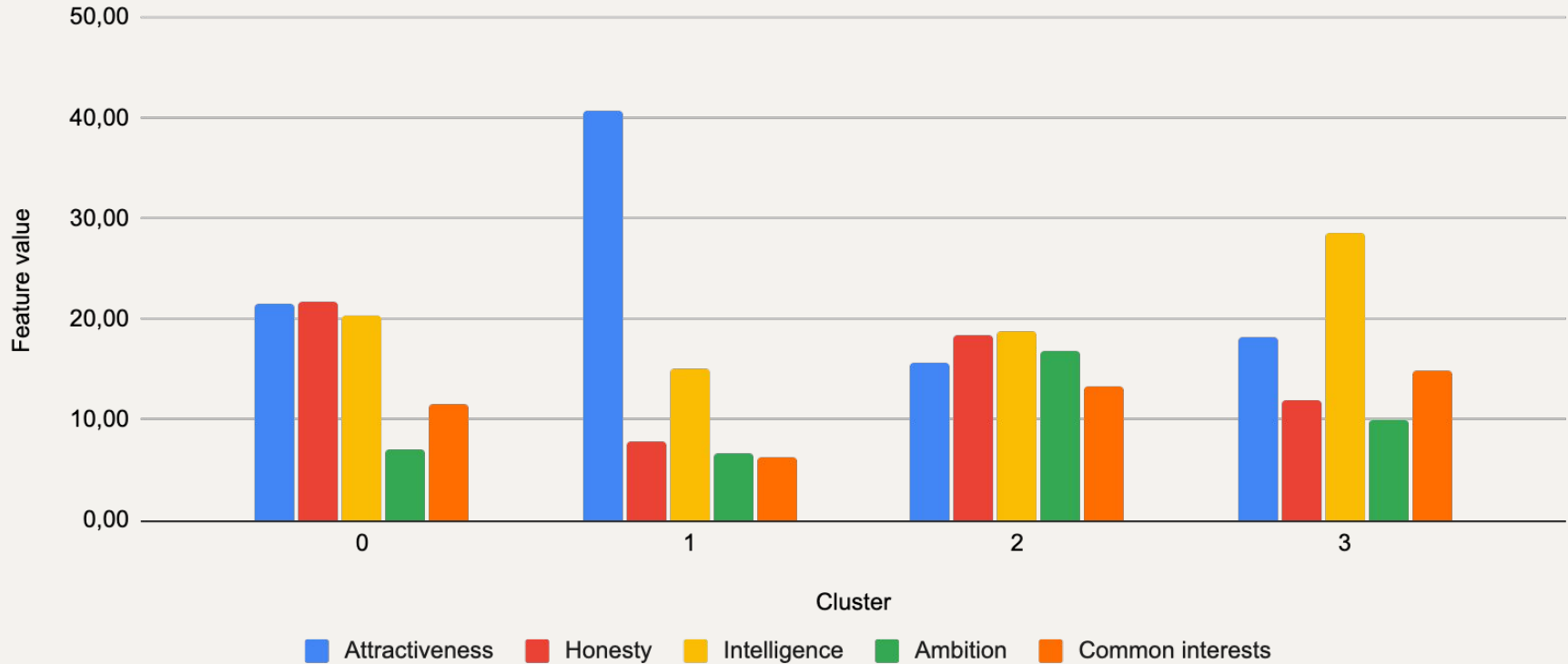
Distance measure: Euclidean.

Connection method: Ward

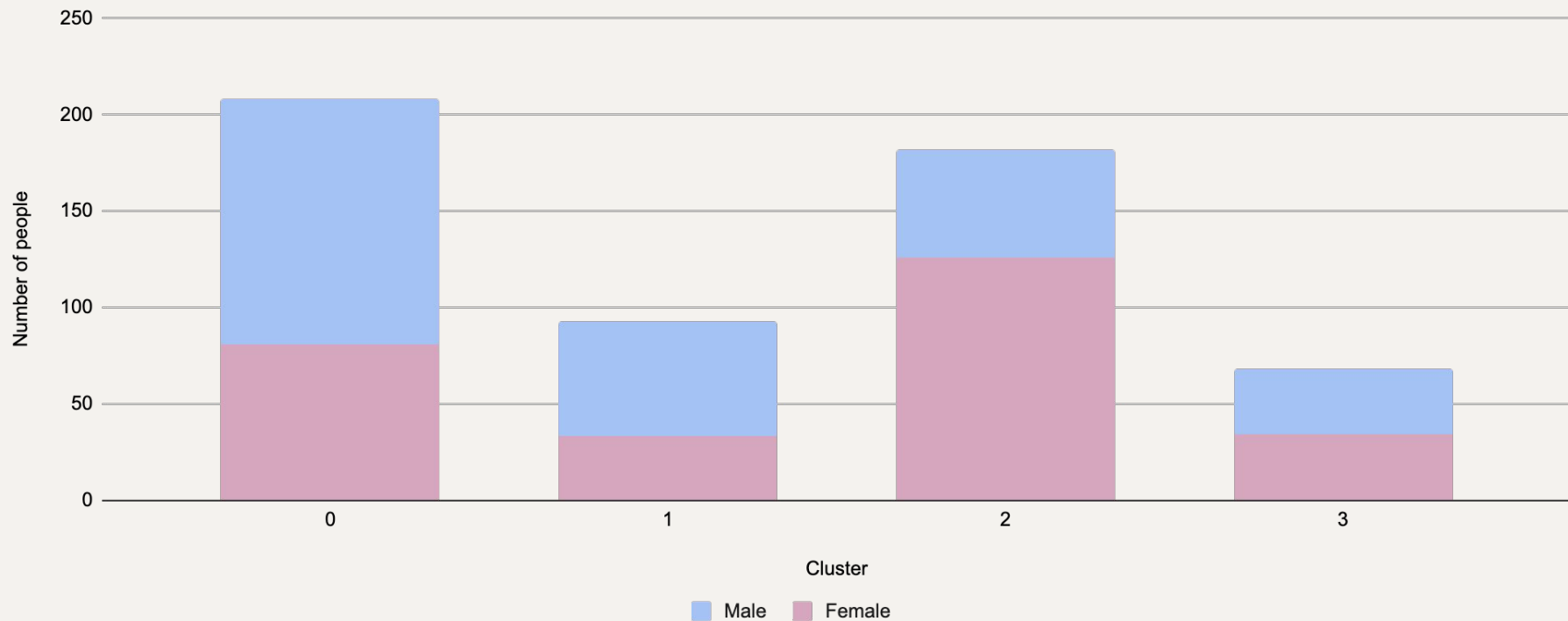
Evaluation: Silhouette method



Distribution of desired feature values in clusters



Rozkład płci w klastrach



Data Split

Women

Men

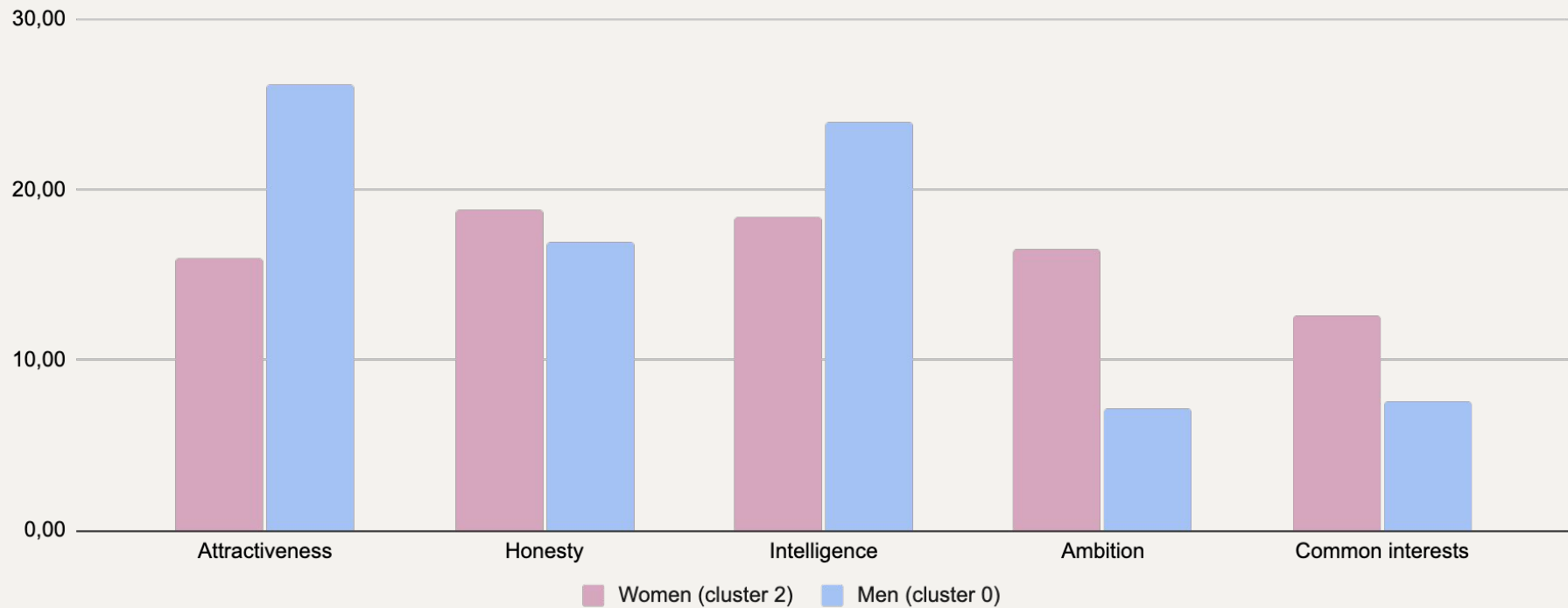
cluster - no. of people

- 2 140
- 0 111
- 1 18
- 3 5

cluster - no. of people

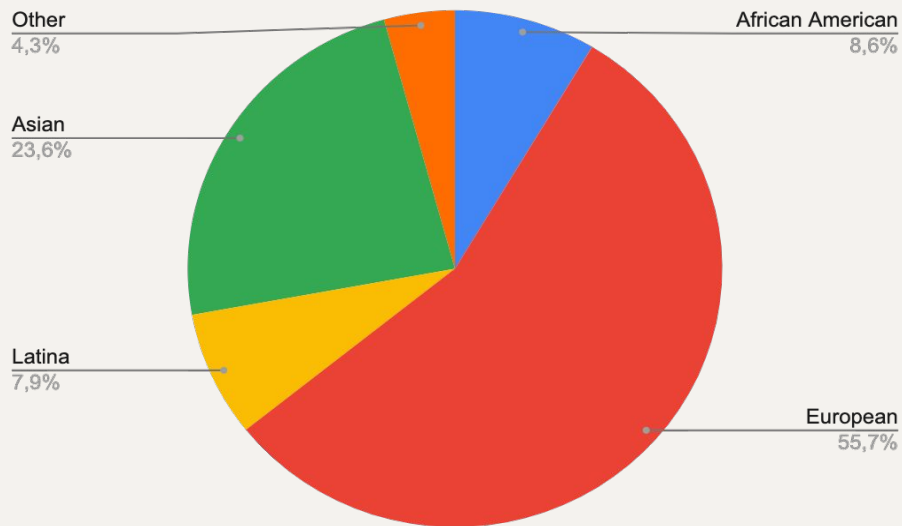
- 0 123
- 2 93
- 3 32
- 1 29

Distribution of desired features

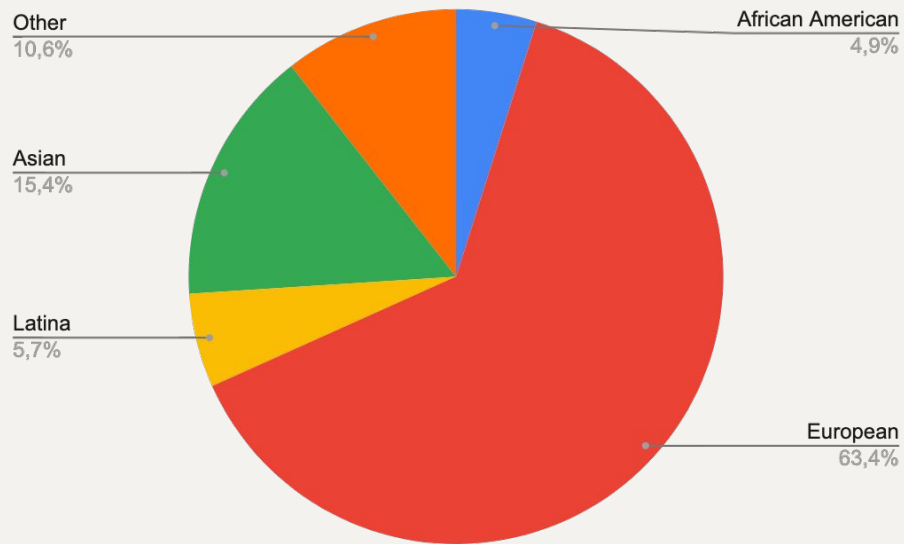


Ethnic group

Kobiety (klaster 2)



Men (cluster 0)

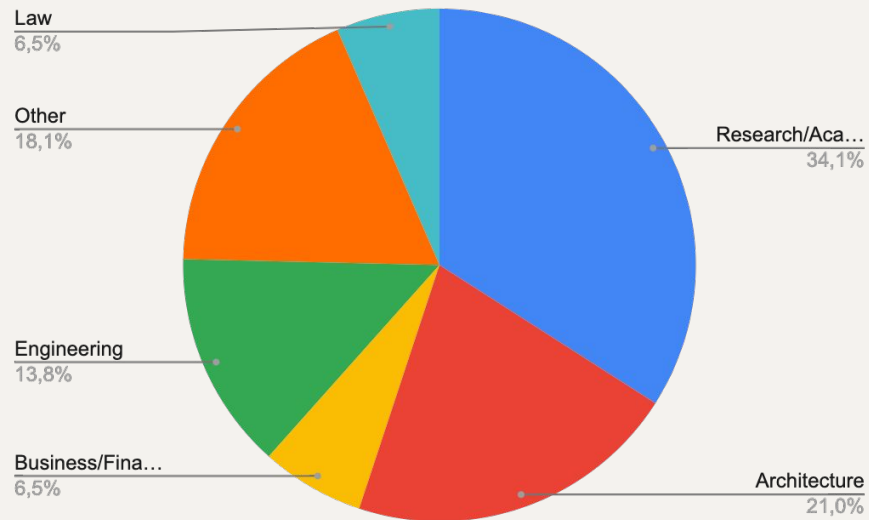


Zainteresowania

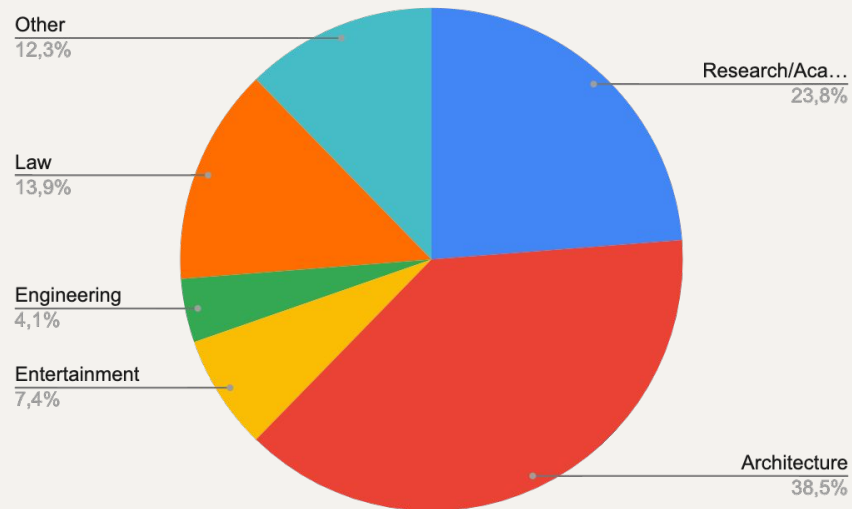


Obszar zawodowy

Women (cluster 2)



Men (cluster 0)



Conclusions and recommendations

- Advertisements should be targeted to the European ethnic group, which can be translated into the geography of the advertisements.
- Common interests are not highly valued (as a desirable feature), so advertisements should not feature couples with common interests.
- Good areas for advertisements include primarily films, but also museums, art, reading, theatre and music.
- The median age for the groups in both sexes is 26.5 and 25 years, respectively. Therefore, the form and language of the advertisement should be age-appropriate.
- Employment area should not be taken into account due to the source of the data