



1st capstone project

SPEED DATING DATASET
INFERENCEAL STATISTICS PHASE
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INFERENTIAL STATISTICS

1) Summary statistics for overall data and by gender:

- for both men and women the attribute 'intelligence' has the highest mean and median
- Attribute 'attractive' has higher mean for men than for women
- Attribute 'ambitious' has higher mean for women than for men

2) Correlation between attribute ratings given by each participant to their partners (continuous from 0 to 10) and how much they like the partners (ordinal from 1 to 10):

- Attractive and like: $r = 0.132$
- Sincere and like: $r = -0.159$
- Intelligent and like: $r = -0.260$
- Fun and like: $r = 0.197$
- Ambitious and like: $r = -0.174$
- **Shared interests and like: 0.2322 (higher positive correlation)**

These correlations may indicate that the attributes that most impact whether a participant likes their partner are shared interests, fun and attractive.

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3) Correlation between median of attribute ratings given by each participant to their partners (continuous from 0 to 10) at each like level (ordinal from 1 to 10):

- Attractive median and like: $r = 0.534$
- Sincere median and like: $r = -0.502$
- Intelligent median and like: $r = -0.656$
- Fun median and like: $r = 0.505$
- Ambitious median and like: $r = -0.337$
- Shared interest median and like: $r = 0.850$

Without considering the decision for a second date, the correlation above shows a stronger correlation for shared interests, fun and attractive.

It shows a negative correlation for sincere, intelligent and ambitious. It may indicate that these attributes are not correctly perceived in a speed dating (5 min), may be interpreted as “trying too hard” to be sincere, intelligent or ambitious.

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4) Correlation between median of attribute ratings given by each participant to their partners (continuous from 0 to 10) at each like level (ordinal from 1 to 10) for partners that said yes to a 2nd date:

- Attractive median and like: $r = 0.553$
- Sincere median and like: $r = -0.759$
- Intelligent median and like: $r = -0.923$
- Fun median and like: $r = 0.097$
- Ambitious median and like: $r = -0.607$
- Shared interest median and like: $r = 0.887$

For participants that decided on a 2nd date, there is a strong correlation for shared interests and attractive. Fun correlation is weak for participants who decided on a 2nd date.

5) Distance between what is important for each partner at sign up:

- When there is match (both participants said yes to a 2nd date), the distance between how important is an attribute for them is smaller than when there is not a match.
- It may indicate that participants that said yes to a second date are more similar in what they value than participants who say no to a 2nd date.