Final Exam

Unsupervised Methods

Instructions

Use any **unsupervised technique** on the **speed_dating.csv** to discover its patterns. The dataset still contains the label.

You should:

- Explore & preprocess the data: Use any visualization tool you want as well as any unsupervised method.
- Explain your choices: Why did you choose this model? Why did you choose this number of clusters? ...
- Organize your Notebook and add as many comments as needed: The performance of your model will be evaluated.

Files

You should return one file:

Your Notebook

Dataset Information

Attribute Information

- 1. gender: Gender of self
- 2. age: Age of self
- 3. age_o: Age of partner
- 4. d_age: Difference in age
- 5. race: Race of self
- 6. race o: Race of partner
- 7. samerace: Whether the two persons have the same race or not.
- 8. importance same race: How important is it that partner is of same race?
- 9. importance same religion: How important is it that partner has same religion?
- 10. field: Field of study
- 11. pref_o_attractive: How important does partner rate attractiveness
- 12. pref o sinsere: How important does partner rate sincerity
- 13. pref_o_intelligence: How important does partner rate intelligence
- 14. pref o funny: How important does partner rate being funny
- 15. pref o ambitious: How important does partner rate ambition
- 16. pref_o_shared_interests: How important does partner rate having shared interests
- 17. attractive o: Rating by partner (about me) at night of event on attractiveness
- 18. sincere o: Rating by partner (about me) at night of event on sincerity
- 19. intelligence o: Rating by partner (about me) at night of event on intelligence
- 20. funny o: Rating by partner (about me) at night of event on being funny

- 21. ambitous_o: Rating by partner (about me) at night of event on being ambitious
- 22. shared_interests_o: Rating by partner (about me) at night of event on shared interest
- 23. attractive_important: What do you look for in a partner attractiveness
- 24. sincere_important: What do you look for in a partner sincerity
- 25. intellicence important: What do you look for in a partner intelligence
- 26. funny_important: What do you look for in a partner being funny
- 27. ambtition important: What do you look for in a partner ambition
- 28. shared_interests_important: What do you look for in a partner shared interests
- 29. attractive: Rate yourself attractiveness
- 30. sincere: Rate yourself sincerity
- 31. intelligence: Rate yourself intelligence
- 32. funny: Rate yourself being funny
- 33. ambition: Rate yourself ambition
- 34. attractive partner: Rate your partner attractiveness
- 35. sincere partner: Rate your partner sincerity
- 36. intelligence_partner: Rate your partner intelligence
- 37. funny partner: Rate your partner being funny
- 38. ambition_partner: Rate your partner ambition
- 39. shared_interests_partner: Rate your partner shared interests
- 40. sports: Your own interests [1-10]
- 41. tvsports
- 42. exercise
- 43. dining
- 44. museums
- 45. art
- 46. hiking
- 47. gaming
- 48. clubbing
- 49. reading
- 50. tv
- 51. theater
- 52. movies
- 53. concerts
- 54. music
- 55. shopping
- 56. yoga
- 57. interests_correlate: Correlation between participant's and partner's ratings of interests.
- 58. expected_happy_with_sd_people: How happy do you expect to be with the people you meet during the speed-dating event?
- 59. expected_num_interested_in_me: Out of the 20 people you will meet, how many do you expect will be interested in dating you?
- 60. expected_num_matches: How many matches do you expect to get?
- 61. like: Did you like your partner?
- 62. guess_prob_liked: How likely do you think it is that your partner likes you?
- 63. met: Have you met your partner before?
- 64. decision: Decision at night of event.

65. decision_o: Decision of partner at night of event.

Label:

1. match: Match (yes/no)