

Summary - Assignment 7a

Description

This assignment is related to the module, Trees. The questions that follow are based on data describing over 10,000 board games. Read in the board games data (`board_games.csv`) and assign it to an object, `games`. If the data is in your working directory, then you can use the following code to read in the data:

```
games = read.csv('board_games.csv')
```

About the Data

This dataset contains information on over 10,000 board games. Our goal is to gain an understanding of the factors that makes a game popular and be able to predict its rating. The data includes characteristics of the game, categories it fits into, and rating.

Variables

- `game_id`: Unique game identifier
- `name`: Name of the game
- `max_players`: Maximum recommended players
- `playtime`: Average playtime (min)
- `min_age`: Minimum recommended age
- `min_players`: Minimum recommended players
- `age_of_game`: Years since game was published. Relative to 2022.

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- age_of_game: Years since game was published. Relative to 2022.
- users_rated: Number of users that rated the game
- rating: Average rating on Board Games Geek (1-10)

- 20 Category Variables: "Yes" if the game fits the category, otherwise "No"

- CardGame
- Wargame
- Fantasy
- Fighting
- Economic
- Science.Fiction
- Dice
- Party.Game
- AbstractStrategy
- Childrens.Game
- WorldWarII
- Bluffing
- Humor
- Animals
- Adventure
- Medieval
- Action.Dexterity
- Deduction
- Movies.TV.Radiotheme
- Miniatures

Where relevant, use an alpha of 0.05 to evaluate statistical significance.

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Where relevant, use an alpha of 0.05 to evaluate statistical significance.

Source: Original data was gathered from BoardGameGeek.

Details

You will have a maximum of three attempts for this assignment. Only those attempts registered before the due date will count towards your score.

When entering your answers, please follow these instructions unless otherwise stated. (Failing to do so may mark your answer as incorrect even if it is correct.)

- Do not round answers from R. Enter them as is.
- Do not use commas to separate numbers in an answer. E.g., write 100000 NOT 100,000
- Do not include units. E.g., 34.56 NOT \$34.56
- Wherever relevant, include the 0 before the decimal. E.g., state the answer as 0.34 NOT .34
- Drop trailing 0s after the decimal. For e.g., state answer as 0.3 NOT 0.30

Academic Integrity

The responses on this assignment must be the product of your individual work. Copying and presenting the work of another as your own, or collaborating with others on this assignment is an academic infarction punishable with a failing grade in this assignment, or this course.

Continue Quiz...

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Assignment 7a

Mithilesh Josyabhatla: Attempt 1

X

Page 1:

1	2	3
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4		
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Read the data into games using `read.csv()`. Split games into a train and test sample such that 70% of the data is in the train sample. To ensure a similar distribution of "rating" across the train and test samples, use `createDataPartition` from the caret package. Set groups to 200 and use a seed of 1031. What is the mean rating in the train sample? [Unless stated otherwise, use the train sample for conducting analysis.]

Av

Question 1 (2 points)

Which of the following variables is most strongly correlated with game "rating"?

Note, question is about strength of correlation not direction.

min_age

age_of_game

max_players

min_players

playtime

Question 3 (2 points)

Assignment 7a

Mithilesh Josyabhatla: Attempt 1

Page 1:

1	2	3
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4
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Question 3 (2 points)

Which of the following is the most popular game category? Note: "Yes" in a category column indicates the game in the row was labeled as belonging to that category.

- Fantasy
- Economic
- Wargame
- CardGame
- Fighting

Question 4 (2 points)

Which of the following game categories have the highest rating? Note: "Yes" in a category column indicates the game in the row was labeled as being in that category.

- Economic
- Fighting
- CardGame
- Fantasy
- Wargame