

# DATA ANALYSIS ON GOOGLE PLAY STORE APPS

## DATA PROJECT 7

1. Import all required libraries
2. Read the csv file
3. Display top 5 rows of the dataset
4. Check the last 3 rows of the dataset
5. Find shape of our dataset (number of rows & number of columns)
  - a. Kindly print in the proper way where one can easily check number of rows and columns
6. Get information about our dataset like total number rows, total number of columns, datatypes of each column and memory requirement.
  - a. Please elaborate in comment section your observation
7. Get overall statistics about the data frame
  - a. Use parameter to show stats of numerical and categorical columns
8. Total number of app titles which contain 'astrology'
  - a. Show columns names first and find out on which column you have to work
  - b. Check the column where you can find that word
  - c. Use contains to find that word
  - d. Do case sensitive and insensitive search
  - e. Find the length of data frame by which one can get to know that how many time this word is used
  - f. Write your observation
9. Find average app rating

- a. Show all columns names to find out on which column you have to work
  - b. Use mean method to find average app rating
10. Find total number of unique categories
  - a. Find names of columns
  - b. Show how many unique are there
11. Which category getting the highest average rating?
  - a. Group by the category and mean the rating
  - b. Sort them by descending order using to find which category has highest average rating
12. Find total number of app having 5-star rating
  - a. You can compare apps which have 5-star rating or
  - b. Can use your own any other method
  - c. Kindly print total numbers in digits
13. Find average value of reviews
  - a. Show all columns
  - b. Find data type of related column
  - c. Convert data type with integer or float
  - d. If you find any exception which is stopping, you to convert then keenly check the exception and solve it
  - e. After having solution kindly convert data type
  - f. Time to find average
14. Find total number of free and paid apps
  - a. First find out the column on which you must work

- b. Show the number of free and paid in customized format
- 15. Which app has maximum reviews?
  - a. Show the name of that app which has maximum reviews
- 16. Display top 5 apps having highest reviews
  - a. Try to find out the names of apps after having sort and indexing
- 17. Find average rating of free and paid apps
  - a. Use mean function for that
- 18. Display top 5 apps having maximum installs
  - a. If need convert the data type
  - b. If required kindly replace values as well
  - c. Use sorting, indexing , iloc for final output
  - d. Output should be simple enough in quite easily readable format.

**Note : No limit for adding bonus elements.**