**PLAY STORE APP REVIEW**

**Instructions:**

i) Please fill in all the required information.

ii) Avoid grammatical errors.

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| **Team Member’s Name, Email and Contribution:** |
| Team members and their contributions:   1. Md Nawab Ali:   Email: nawabali.7410@gmail.com   1. Data cleaning and preparation: 2. Dealing with null values in the both datasets. 3. Removing duplicate values from both data sets. 4. Data analysis and visualization: 5. Bar plot of different categories of apps in play store. 6. Average rating of apps 7. Content rating of apps 8. Percentage of free and paid apps. 9. Highly installed and least installed categories of apps 10. Top 10 apps of a particular category. 11. Most expensive apps on play store. 12. Average size of apps. 13. Top 10 genres in play store. 14. Dataset correlation through heatmap and regression plot. 15. Sentiment count of user review. 16. Jahnavi Jaolekar:   Email: jaolekarjahnavi@gmail.com   1. Data cleaning and preparation: 2. Dealing with null values in the both datasets. 3. Removing duplicate values from both data sets. 4. Data analysis and visualization: 5. Bar plot of different categories of apps in play store. 6. Average rating of apps 7. Content rating of apps 8. Percentage of free and paid apps. 9. Highly installed and least installed categories of apps 10. Top 10 apps of a particular category. 11. Most expensive apps on play store. 12. Average size of apps. 13. Top 10 genres in play store. 14. Dataset correlation through heatmap and regression plot. 15. Sentiment count of user review. 16. Kaustubh Amare:   Email: kaustaubhamare.197@gmail.com   1. Data cleaning and preparation: 2. Dealing with null values in the both datasets. 3. Removing duplicate values from both data sets. 4. Data analysis and visualization: 5. Bar plot of different categories of apps in play store. 6. Average rating of apps 7. Content rating of apps 8. Percentage of free and paid apps. 9. Highly installed and least installed categories of apps 10. Top 10 apps of a particular category. 11. Most expensive apps on play store. 12. Average size of apps. 13. Top 10 genres in play store. 14. Dataset correlation through heatmap and regression plot. 15. Sentiment count of user review. |
| **Please paste the GitHub Repo link.** |
| Github Link:- <https://github.com/mdnawabali/Play-Store-App-Review> |
| **Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)** |
| **PROBLEM STATEMENT**  To explore and analyze the data to discover key factors responsible for app engagement and success. Our mission is to assist Android developers in understanding what is the motivating factor for people to download an app. Finding out what influences a person's decision to download an app will be helpful as well. For this reason, I would like to analyze installs, prices, ratings, reviews, and categories to see how they are connected  **APPROACHES**  Each app (row) has values for category, rating, size, and more. Developers can use these insights to build on and conquer the Android market. Customer reviews for Android apps are included in another dataset. Two data sets are given to us for this project: one is the user reviews review dataset and the other is the play store app reviews dataset. etc., while a dataset of user reviews is based on the reviewers' sentiments.  In order to perform EDA on the provided data sets, cleaning and adjustments have been made, in which NaN values in numerical data have been replaced by their median values, and other Categorical variables in the data set have been replaced by their mode values. While preparation of the data presence of extraneous features that were added to the data were also removed and dealt accordingly. Finally visuals in the form of bar plots, pie charts, line graphs , tables, boxplots, correlation heatmaps and regression plots were created giving proper analysis of the data for both customers as well as for developers.  **CONCLUSION**  The information has the potential to provide insights that will help developers better understand client needs and, in turn, aid in the product's commercialization. The app's original ratings and anticipated ratings can be compared in the dataset to see whether the app is performing better or worse than other apps available on the Play Store.  Using exploratory data analysis of play store app reviews as a whole, the following conclusions can be drawn:   * The Family category contains the majority of the apps. They make up about 19% of all categories. * The mean rating is adversely biassed at 4.12. * The median size is 12 MB, with sizes being favourably skewed. * With a mean price of 1, a median price of 0, and a maximum price of 100, prices are positively skewed. * The majority of applications are made for everyone * The majority of apps—92%—are free. * The top 3 genres are tools, entertainment, and education. * A little over 64% of sentiments are favourable, 22% are unfavourable, and 14% are neutral. * 266 apps have received a 5-star rating. wherein the Family category includes 67 applications. * Of the top 50 most downloaded apps, 22% are in the communication category and 16% are games. * Family category has the highest no. of paid apps. |