# **PlayStoreAppReviewAnalysis**

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#### **ABSTRACT**

Google play store is simply entertainment at ourfingertips. It's an official app store and a digitalmedia store having enormous things to offer likebooks, movies, programs and music. Applications are either free or paid. Our team has worked

onplaystoredata. This dataset contains 13 features and 10840 observations. This information can be used for predicting key factors responsible for appengagement & successions.

#### INTRODUCTION

Play store is not just an app store, it's a platformoffering various digital content to its consumers. The Google Play Store is hometoandroid applications, music, movies, books, games and television programs. 81% of the apps are free of cost which has led to immense popularity of this platform. As per google survey report 3000+ apps are being added every other day. The Google Play Store contains applications for the Android systemonly. This document reveals the dynamics of the Play Store app and gives actionable insights for the developers to work on and rule the Android market.

#### INTEGRALMETHODOLOGY:

First, we investigated some basic information of our dataset. On doing so we found out that our dataneeded some cleaning, some values were missing, and some datatypes were incorrect. We started with datacleaning and correcting the datatypes, followed by data visualisation. We removed some unnecessary features and made it ready for analysis using different plots.

#### DATASETDESCRIPTION:

Thisdatasethas 13 features and 10840 observations

App	Name of the App

Categoryunder whichit falls
Application's rating on playstore
Number of reviews of the app
Sizeof theapp
NumberofInstallationoftheapp
Whetherthe appisfree or paid
Priceoftheappifit'sapaidapp(0if it's afreeapp)
Appropriatetargetaudienceofthea pp
Genresunderwhichthe appfalls
DatewhentheAppwaslastup dated
Current version of the App
Minimum android versionrequiredtos upportthe App.

#### BREAKDOWNOFDATASETS

Beforeproceeding to data visualisation, we need to per form the following steps:

- 1. Importing required packages for future analys is
- 2. MountingdriveandreadingdatafilesfromGo ogledrive.
- 3. Removingfuturewarningsinseabornplots.
- 4. Viewingall datainformation.
- 5. Droppingduplicate.
- 6. Removingspecialcharacters
- 7. Checkinguniquevalues,nullcountanddataty pesof each column.

8. Segregationofnumericalandcategoricaldata

#### **EXAMININGNULL/MISSINGVALUES**

Some values in our dataset are null or missing. These values affect the accuracy and performance of the models that predict the outcome, so these need to be handled. While analysing our dataset the first thing we will do is to examine the null ormissing values in our dataset. This makes our resultac curate. Missing values are more in Size & Rating columns as can be seen by plotting graphs. Hence several methods are used to remove these values.

#### **DATACLEANING**

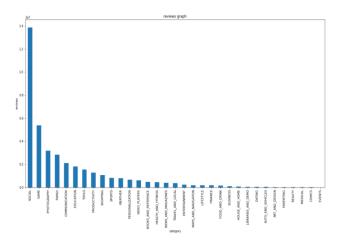
Datacleaningistheforemoststepinanydatasciencepro ject. Cleanerthedata, betteraretheresults. Astheprover bgoesbysaying "More Databeatscleveral gorithm, but betterdatabeatsmore Data" —

PeterNorvig.Tobeginwithourdatacleaning,firstwere movetheduplicatevalues.Thenwe remove unnecessary characters in our dataset.Afterdoingsowefindtheuniquevaluesofeach

dataset. Afterdoingsowefindtheuniquevaluesofeach columnandmakethenecessarychangesineach columnlike converting datatypes, removing the null and 'nan' values. Lastly, we have done exploratory data analysis of our dataset.

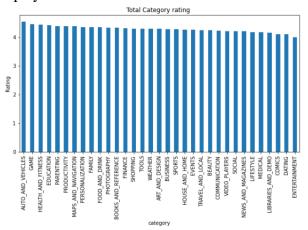
# DATAVISUALIZATION Observation1:

From this barplot graph analysis it tells that category social has the highest and events has the lowest value.



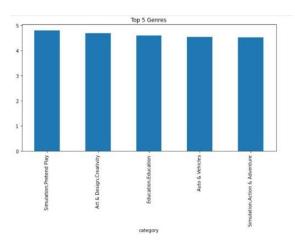
#### **Observation2:**

Weplotted agraph oftop categories on playstore



#### **Observation3:**

Weplotted agraph oftop five genres.



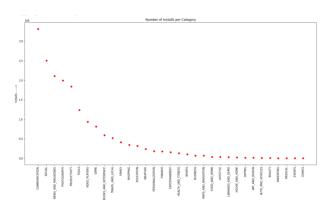
#### **Observation4:**

We plotted a graph on installation vs ratings.



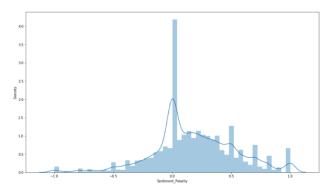
### observation5:

Weplottedagraph on installation per category



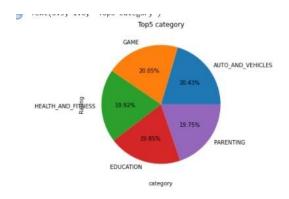
### **Observation6:**

We plotted a graph on sentiment polarity



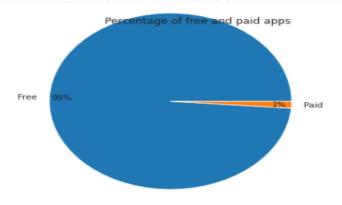
## **Observation7:**

We plotted a pie chart of top five category.



## **Observation 7:**

Percentage of paid and free apps



# Advantages of visualisation

Visualiseddataisprocessedfasterandeasier.

- Better insights of the data are drawnwhichmaybe missedintraditionalreports
- Helps us visualise trends whichimproveperformance

#### CONCLUSIONANDFUTUREWORK

The app developers can predict the outcome of the developed apps. Better insights are drawnfrom this visualisation. Apps which need to

beimprovedcanbeworkeduponbythedevelopers. Thedatasetcontainsimmensepossibilitiestoimpr ovebusinessvaluesandhaveapositiveimpact. Wecouldaddasystemthatwouldcreateapplication on its own by using the data set andcreating the best user interface by highly ratedapps.

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