Data Representation Assignment (DS 899)
on
Google Play Store Applications analysis.

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1 The different visualizations of the dataset

Figure 1 shows the distribution of categories of application and their number (sizes) in google play store. We can see that the category of family and games are the most widely used.
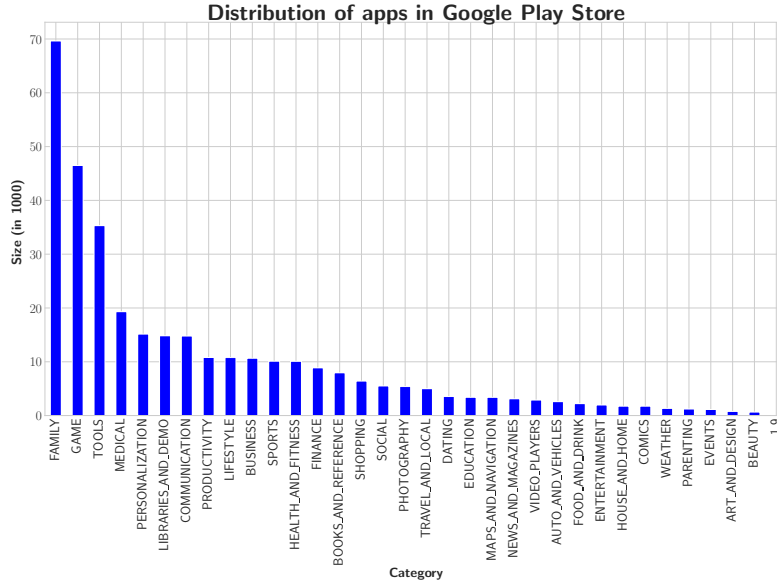

Figure 1: Distribution of Categories of Application in play store.

Figure 2 shows the ratings obtained from different categories of applications in Google Play store for free apps. Similarly, for paid

apps, we can see that some of the category doesnot have any ratings as shown in Figure 3. The difference (in Figure 4) shows that the overall rating for free apps is more than the paid apps.
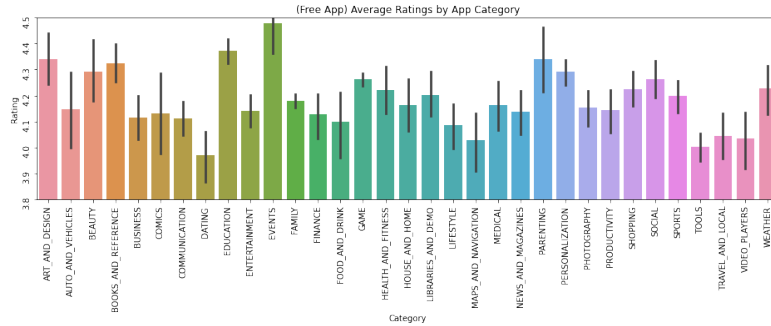

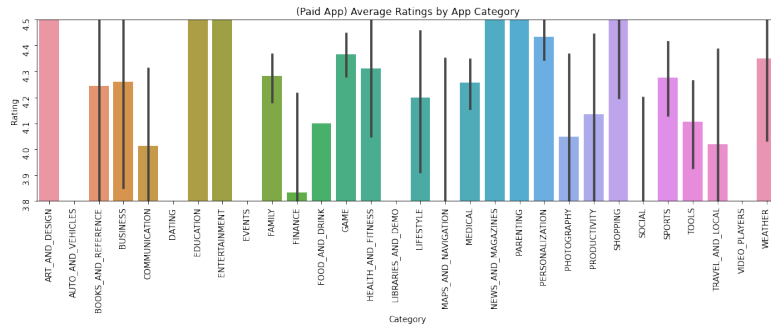Figure 2: Ratings distribution of free applications.

Figure 3: Ratings distribution of paid applications.

A brief overview of the dataset is shown in Table 1. Note, that this is a multi-dimensional table, and we have only given description of those items which can be grouped by properly in the table.

The graphical abstract for the title is shown in Figure 5.

Acknowledgements

Table 1: A brief overview of the dataset.

| Category	Average Ratings	Installs (in 1 Million)	No. of Applications
1.9	19.0	-	1
ART AND DESIGN	4.358064516129032	50.0	65
AUTO AND VEHICLES	4.190410958904109	122.83333333333333	85
BEAUTY	4.2785714285714285	150.0	53
BOOKS AND REFERENCE	4.346067415730337	121.21739130434783	231
BUSINESS	4.121452145214521	109.8157894736842	460
COMICS	4.155172413793103	75.0	60
COMMUNICATION	4.158536585365853	130.29577464788733	387
DATING	3.9707692307692306	172.68627450980392	234
EDUCATION	4.389032258064516	-	156
ENTERTAINMENT	4.126174496644295	-	149
EVENTS	4.435555555555555	173.375	64
FAMILY	4.1922724670864335	161.14617940199335	1972
FINANCE	4.13188854489164	171.2549019607843	366
FOOD AND DRINK	4.1669724770642205	97.27777777777777	127
GAME	4.286326344576117	130.76388888888889	1144
HEALTH AND FITNESS	4.277104377104377	108.53333333333333	341
HOUSE AND HOME	4.197368421052632	65.85714285714286	88
LIBRARIES AND DEMO	4.178461538461539	151.66666666666666	85
LIFESTYLE	4.094904458598726	156.33333333333334	382
MAPS AND NAVIGATION	4.051612903225807	126.0	137
MEDICAL	4.1891428571428575	123.80254777070064	463
NEWS AND MAGAZINES	4.1321888412017165	117.55102040816327	283
PARENTING	4.3	55.0	60
PERSONALIZATION	4.335987261146497	125.31372549019608	392
PHOTOGRAPHY	4.19211356466877	160.51724137931035	335
PRODUCTIVITY	4.211396011396012	120.94680851063829	424
SHOPPING	4.2596638655462185	192.83333333333334	260
SOCIAL	4.255598455598456	119.5609756097561	295
SPORTS	4.223510971786833	104.13888888888889	384
TOOLS	4.04741144414169	173.02083333333334	843
TRAVEL AND LOCAL	4.10929203539823	138.2	258
VIDEO PLAYERS	4.063750000000001	248.0	175
WEATHER	4.244	304.0	82
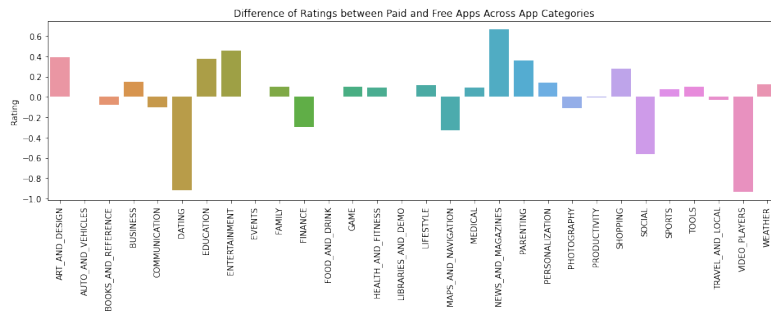
Figure 4: Difference of Ratings between paid and free apps.
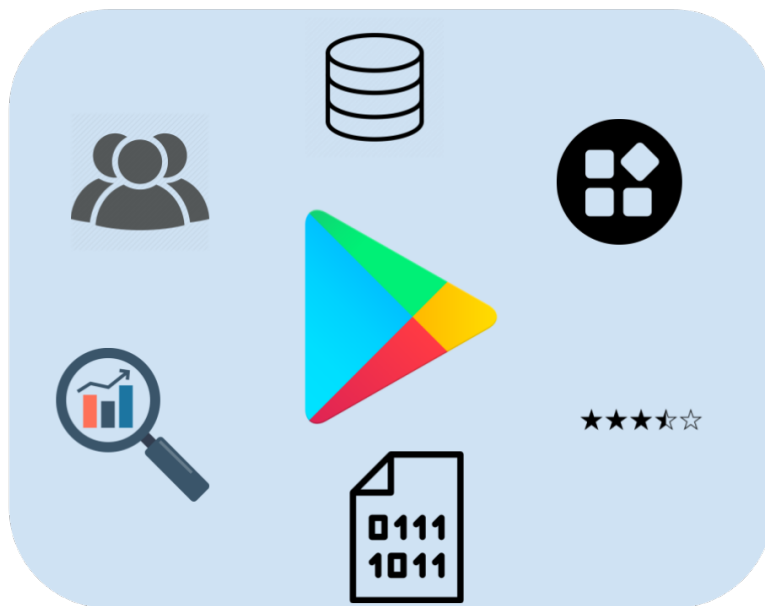
Figure 5: Graphical Abstract on the given topic.