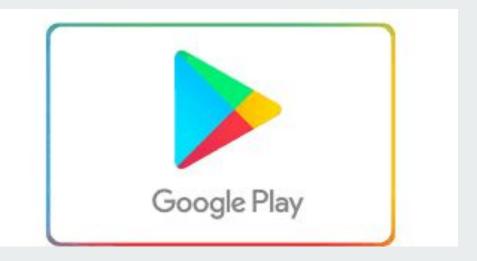
Google Play Store

App Install Analysis

Team Members:

Dimitrije Adzic Taylor Thompson Travis Grogan Yan Sun Yang Song Yael Yana Reinus



Problem Statement

How can app developers focus their times working on apps in the most fruitful categories?

Data

We used the Google Play Store Apps dataset which is web-scraped data on each application in the store

Each row in the dataset represents an app and has values for category, rating, size, price, and more

https://www.kaggle.com/lava18/google-play-store-apps?select=googleplaystore.csv

DATA CLEANING



About Data

Index	Арр	Category	Rating	Reviews	Size	Installs	Туре	Price	Content Rating	Genres	Last Updated	Current Ver	Android Ver
0	Bible du Semeur-BDS (French)	BOOKS_AND_REFERENCE	4.5	313	6.9M	50000	Free	0	Everyone	Books &	August 4,	0.7	1.0 and up
1	Tamilnadu Electricity Info	TOOLS	3.6	216	811k	10000	Free	0	Everyone	Tools	November 9	2.0	1.0 and up
2	DC Metro	MAPS_AND_NAVIGATION	3.4	59	1.3M	10000	Free	0	Everyone	Maps & N	January 26	1.0	1.5 and up
3	BNCR Token Celular	FINANCE	3.7	913	70k	100000	Free	0	Everyone	Finance	July 20, 2	1.0	1.5 and up
4	DS Tower Defence	GAME	3.2	768	1.4M	100000	Free	0	Everyone	Arcade	June 5, 20	1.0	1.5 and up
5	4 in a row	GAME	4.3	47698	4.1M	5e+06	Free	0	Everyone	Board	April 12, …	1.0.21	1.5 and up
6	Age of Conquest: N. America	FAMILY	4.5	659	3.3M	10000	Paid	\$3	Everyone	Strategy	August 4,	1.0.28	1.5 and up
7	Active Soccer 2 DX	SPORTS	3.6	28	48M	500	Paid	\$2	Everyone	Sports	March 28,	1.0.3	1.5 and up
8	.R	TOOLS	4.5	259	203k	10000	Free	0	Everyone	Tools	September …	1.1.06	1.5 and up
9	AH Alarm Panel	TOOLS	3.9	7	81k	100	Paid	\$4	Everyone	Tools	May 12, 20	1.2.0	1.5 and up
10	CS16Client	GAME	4.3	8668	9.1M	500000	Free	0	Teen	Action	April 1, 2	1.33	1.5 and up

Analysis & Libraries

Analysis:

- Linear regression
- Summary Statistics

Libraries:

- Pandas
- Numpy
- Matplotlib
- Seaborn





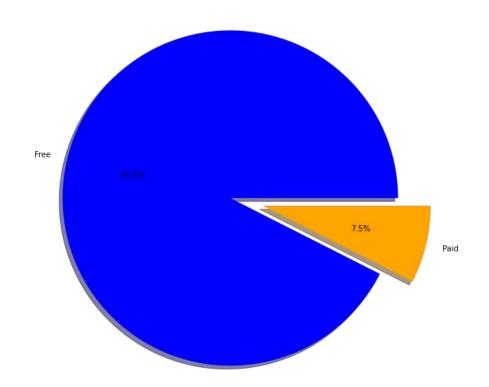


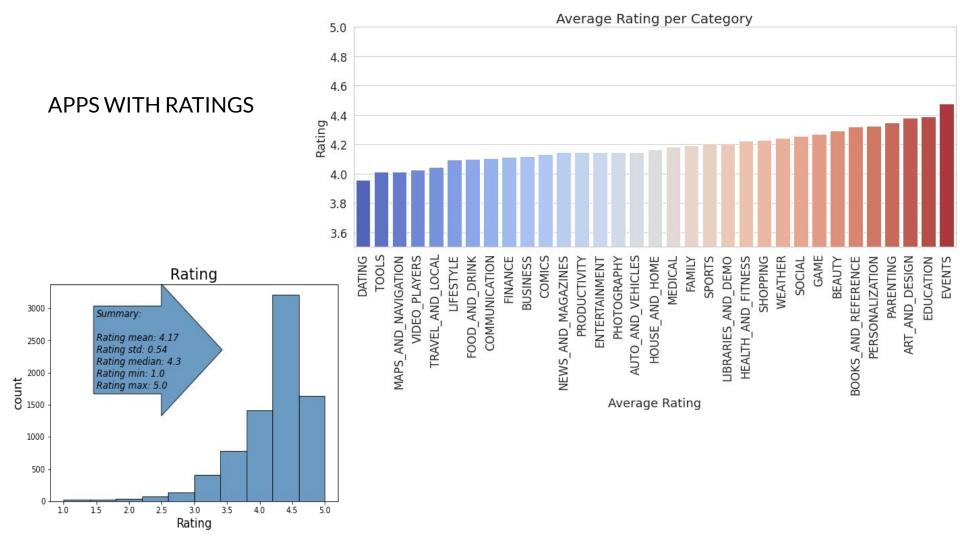


Percent of Free Vs Paid Apps in store

FREE VS PAID

VAST MAJORITY OF APPS ARE FREE

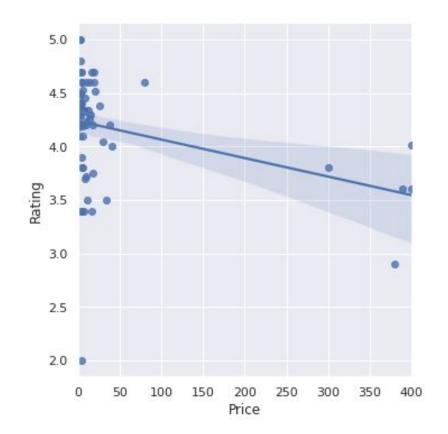




How App Price Impacts Ratings

Most expensive apps =/ the highest rating

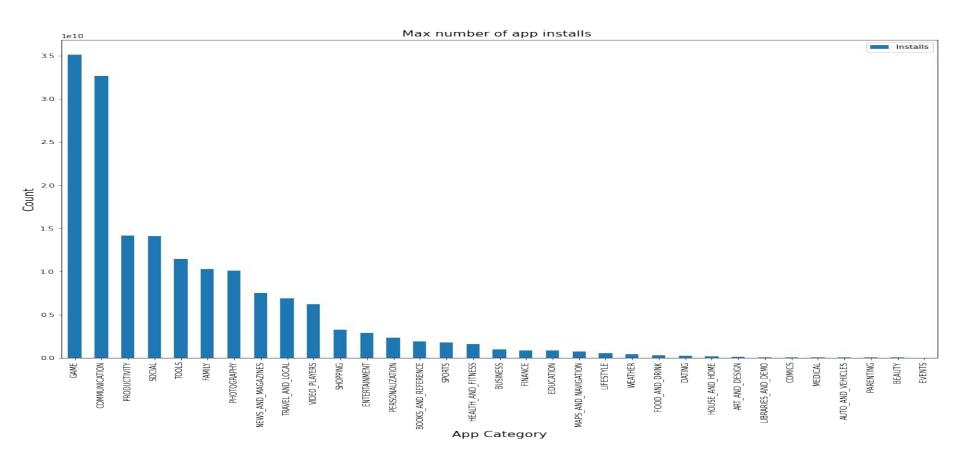
Free apps receive higher ratings and more of them



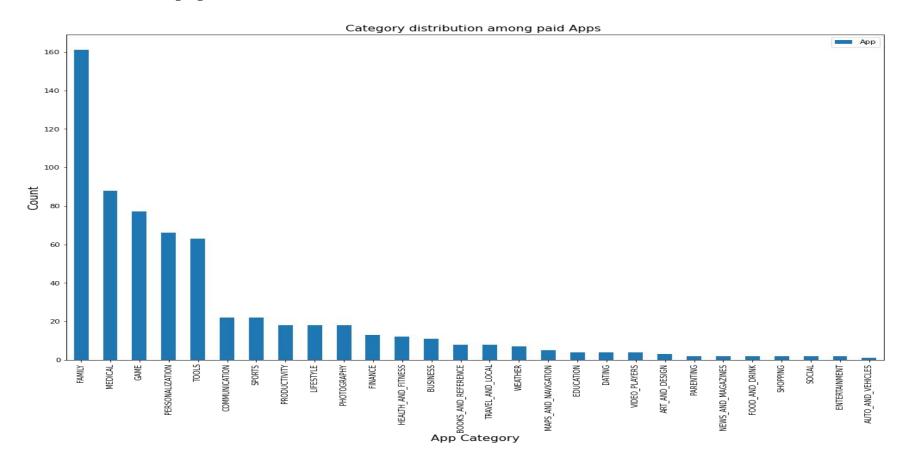
Top categories on Google Playstore FAMILY GAME TOOLS MEDICAL LIFESTYLE PERSONALIZATION FINANCE SPORTS BUSINESS PHOTOGRAPHY **TOP 5 Categories:** PRODUCTIVITY HEALTH_AND_FITNESS Family COMMUNICATION Game SHOPPING SOCIAL Tools DATING NEWS AND MAGAZINES Medical TRAVEL AND LOCAL Lifestyle BOOKS_AND_REFERENCE VIDEO_PLAYERS EDUCATION MAPS_AND_NAVIGATION ENTERTAINMENT FOOD AND DRINK AUTO AND VEHICLES LIBRARIES AND DEMO ART AND DESIGN HOUSE_AND_HOME WEATHER COMICS PARENTING EVENTS BEAUTY 200 400 600 800 1000 1200 1400 1600

Count

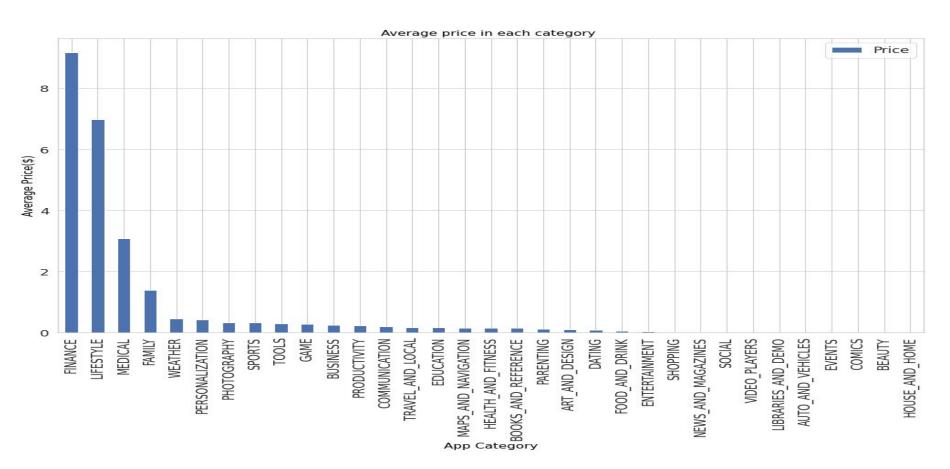
Installed Apps (Category distribution)



Paid Apps (Category distribution)



Average price in each category



ADVICE TO DEVELOPERS

Price greatly impacts app ratings

Financial Apps Focus









Potential to "Gamify" other categories

Challenges

 Doesn't Account for In-App Purchases/ "Freemium" business model

0

Outdated dataset

