

GAME RECOMMENDATION SYSTEM

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01.
DATA
UNDERSTANDING

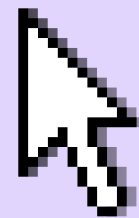
02.
EXPLORATORY DATA
ANALYSIS & DATA PRE
PROCESSING

03.
RECOMMENDATION
SYSTEM



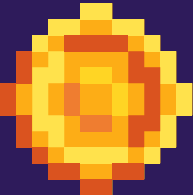
01.

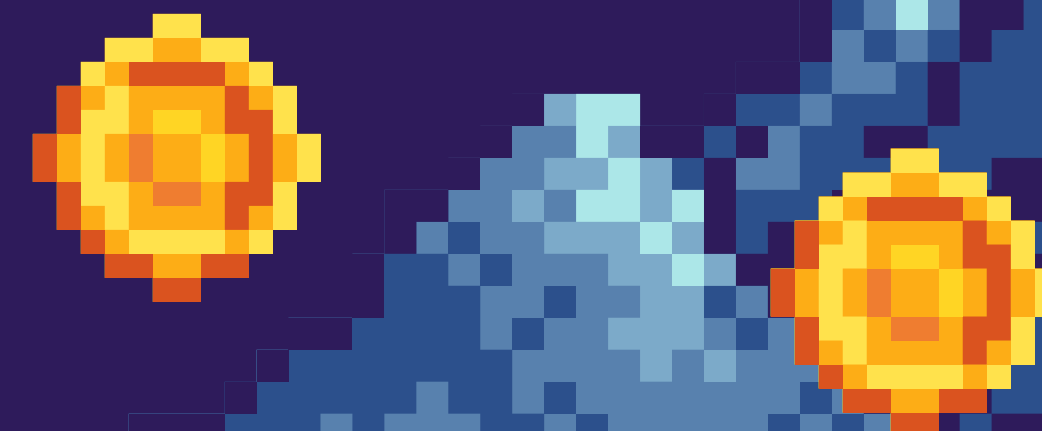
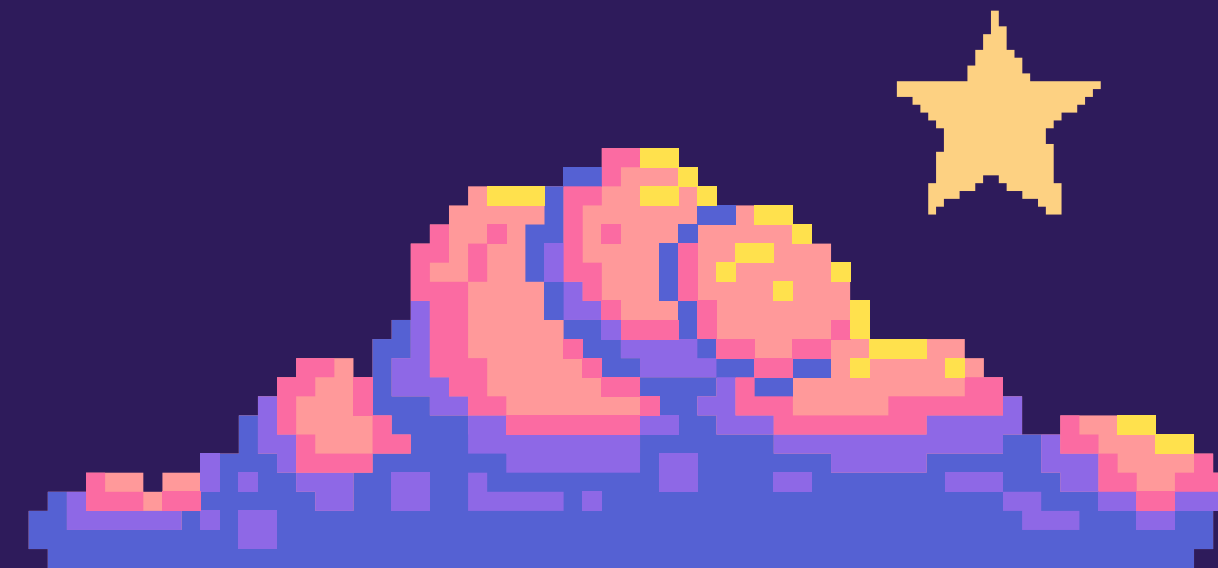
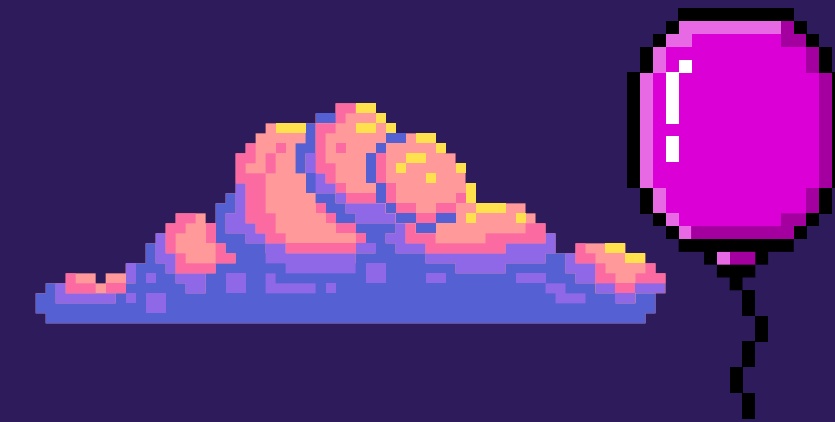
DATA UNDERSTANDING




DATA ★ UNDERSTANDING

Obtained through kaggle this dataset is about the games that are available on steam. It consist of 27075 rows with 18 columns. The target is to get a game recommendation.

- 
- 1 appid = ID of the game
 - 2 name = Name of the game
 - 3 release_date = Release date of the game
 - 4 english = If the games are in English or not
 - 5 developer = Company that creates the game
 - 6 publisher = Company that publishes the game
 - 7 platforms = Platforms the game are available on
 - 8 required_age = Required age to play the game
 - 9 categories = Category of the game
 - 10 genres = Genre of the game
 - 11 steamspy_tags = Multiple genre of the game
 - 12 achievements = Whether the game has achievements or not
 - 13 positive_ratings
 - 14 negative_ratings
 - 15 average_playtime
 - 16 median_playtime
 - 17 owners = Number of owner
 - 18 price = Price of the game





02.

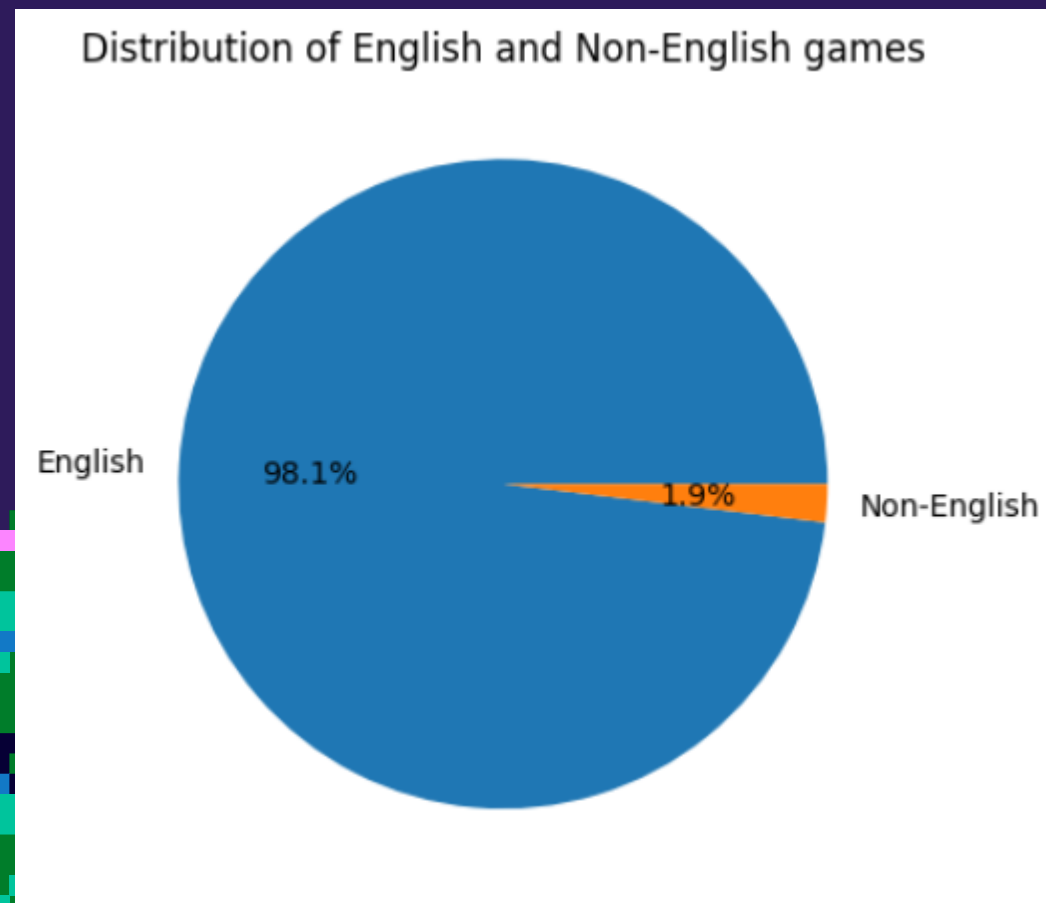
EXPLORATORY DATA ANALYSIS & DATA PREPROCESSING

EXPLORATORY DATA ANALYSIS & DATA PREPROCESSING

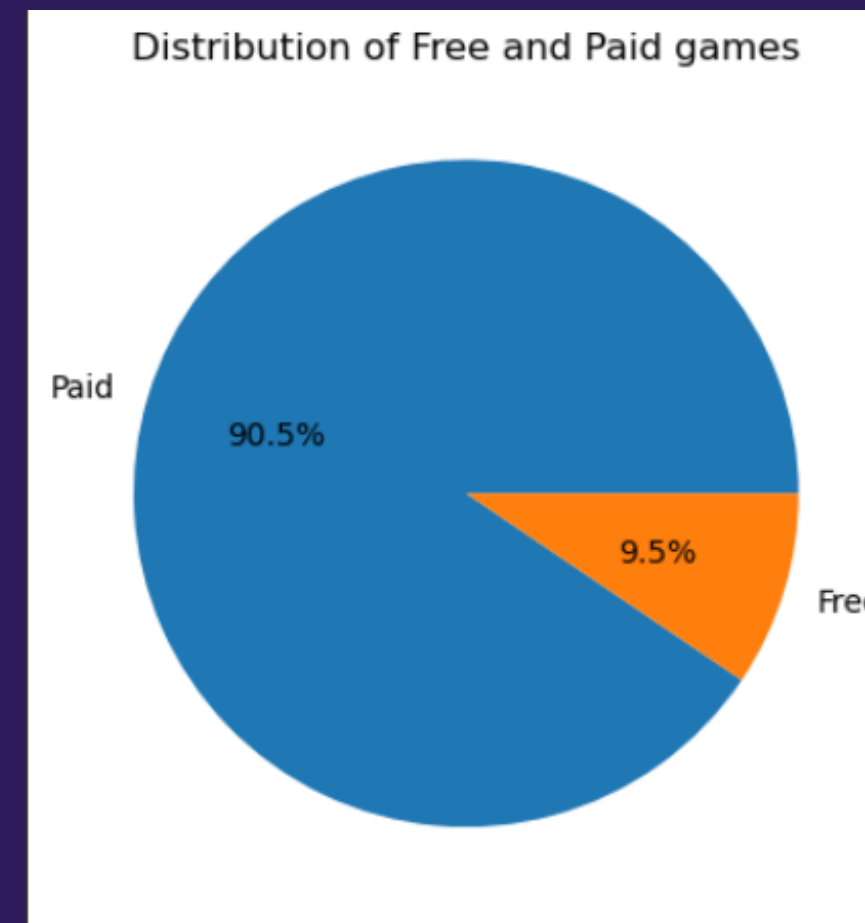
In this section did basic data cleaning such as checking the missing values and duplicated values, and the results are none! Next I feature engineer a few things to make easier analysis, such as creating a new column called overall reviews and free.

```
appid      0
name       0
release_date  0
english    0
developer  0
publisher  0
platforms  0
required_age  0
categories  0
genres     0
steampy_tags  0
achievements  0
positive_ratings  0
negative_ratings  0
average_playtime  0
median_playtime  0
owners     0
price      0
dtype: int64
```

EXPLORATORY DATA ANALYSIS & DATA PREPROCESSING



```
english
1      26564
0        511
```

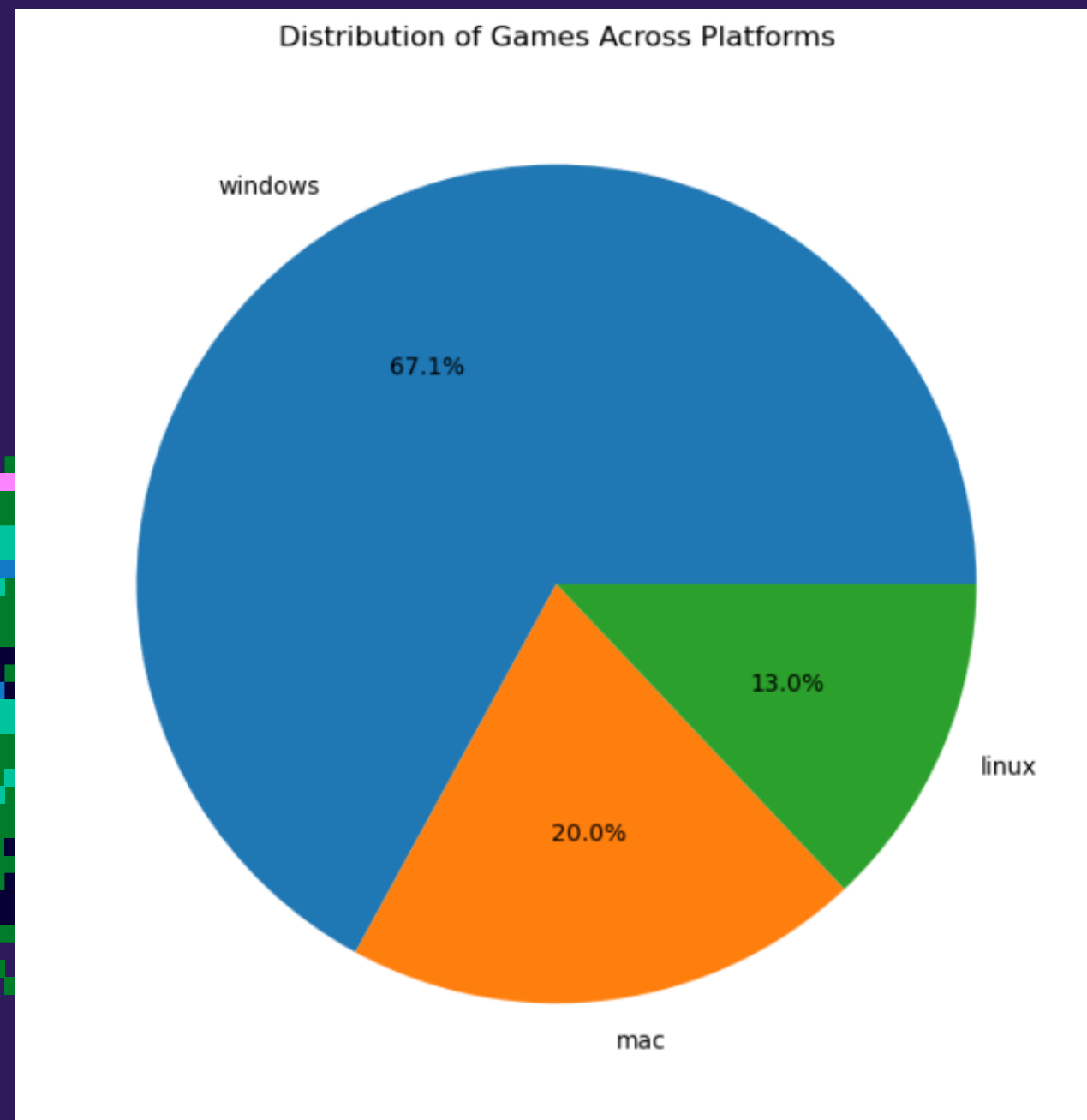


```
free
False  24515
True   2560
```

EXPLORATORY DATA ANALYSIS & DATA PREPROCESSING

	name	developer	publisher		genres	overall_reviews
25	Counter-Strike: Global Offensive	Valve;Hidden Path Entertainment	Valve		Action;Free to Play	3046717
22	Dota 2	Valve	Valve		Action;Free to Play;Strategy	1005586
12836	PLAYERUNKNOWN'S BATTLEGROUNDS	PUBG Corporation	PUBG Corporation		Action;Adventure;Massively Multiplayer	983260
19	Team Fortress 2	Valve	Valve		Action;Free to Play	549915
2478	Grand Theft Auto V	Rockstar North	Rockstar Games		Action;Adventure	468369
121	Garry's Mod	Facepunch Studios	Valve		Indie;Simulation	380154
1467	PAYDAY 2	OVERKILL - a Starbreeze Studio.	Starbreeze Publishing AB		Action;RPG	365180
3362	Unturned	Smartly Dressed Games	Smartly Dressed Games		Action;Adventure;Casual;Free to Play;Indie	324056
5235	Tom Clancy's Rainbow Six® Siege	Ubisoft Montreal	Ubisoft		Action	310798
2016	Rust	Facepunch Studios	Facepunch Studios	Action;Adventure;Indie;Massively Multiplayer;RPG		274079

EXPLORATORY DATA ANALYSIS & DATA PREPROCESSING



windows	27070
mac	8066
linux	5235

EXPLORATORY DATA ANALYSIS & DATA PREPROCESSING

	developer	games	reviews
15120	Valve;Hidden Path Entertainment	1	3046717
15118	Valve	26	2474157
10448	PUBG Corporation	1	983260
4759	Facepunch Studios	4	654503
1614	Bethesda Game Studios	10	561774
11952	Rockstar North	4	470048
14873	Ubisoft Montreal	19	442215
10080	OVERKILL - a Starbreeze Studio.	1	365180
1969	Bohemia Interactive	16	355603
12900	Smartly Dressed Games	1	324056



03.

RECOMMENDATION SYSTEM

RECOMMENDATION SYSTEM

The recommendation system that will be used is content based recommendation where it will take recommendation based on the user past preference. In the recommendation it will also display The game name, platform, steamspy tags, overall reviews as well as the price. Below are the top 10 recommended games that are similar to Grand Theft Auto V

Recommended games for Grand Theft Auto V:

name	platforms	steamspy_tags	overall_reviews	price
Grand Theft Auto	windows	Action;Classic;Open World	229	0.0
Grand Theft Auto 2	windows	Action;Classic;Open World	201	0.0
Grand Theft Auto III	windows	Open World;Action;Classic	5468	5.99
Grand Theft Auto: San Andreas	windows	Open World;Action;Multiplayer	30120	9.99
Grand Theft Auto IV	windows	Open World;Action;Bowling	54166	19.99
Grand Theft Auto: Episodes from Liberty City	windows	Open World;Action;Multiplayer	8746	14.99
Grand Theft Auto: Vice City	windows	Open World;Action;1980s	10636	5.99
Get Over Here	windows	Action;Indie	24	6.99
Auto-Staccato	windows	Early Access;Casual;Action	7	7.19
BLOCK WARRIORS: "Open World" Game	windows	Adventure;Action;Open World	541	1.69