



MUHAMMAD NAUFAL FADHILAH

Education:

2024
Dibimbing.id
Non Formal Education - Data Science

2019
University College of Aviation Malaysia
Associate Degree - Flight Operations Management

Working experience:

2021 - 2023, Operation Officer & Helideck Inspector Oryx Aviation Services LLC. Abu Dhabi, UAE

2021, Content Analyst Shopee. Jakarta, Indonesia



Skills:

Python, SQL, Google Looker Studio, Tableu, Data Analysis, Machine Learning









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 recomendation according to the ones we recently played.



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

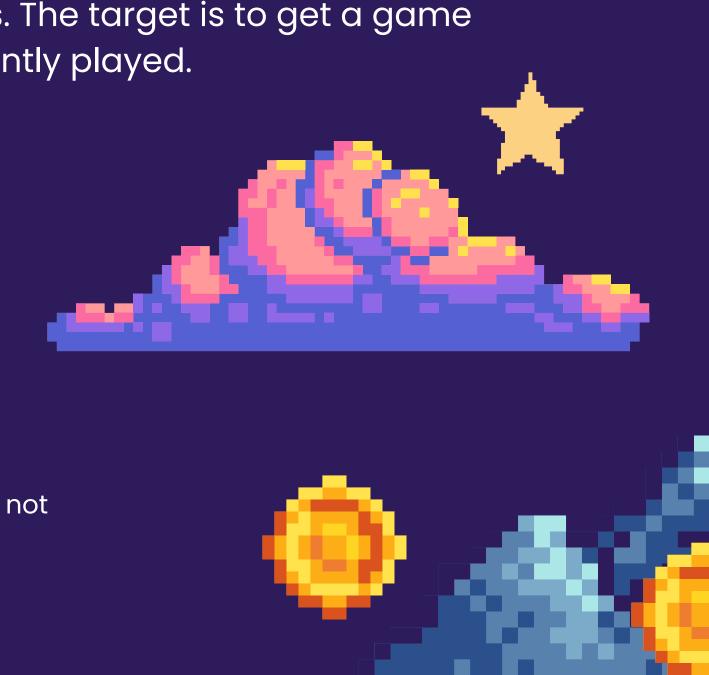
14 negative_ratings

15 average_playtime

16 median_playtime

17 owners = Number of owner

18 price = Price of the game

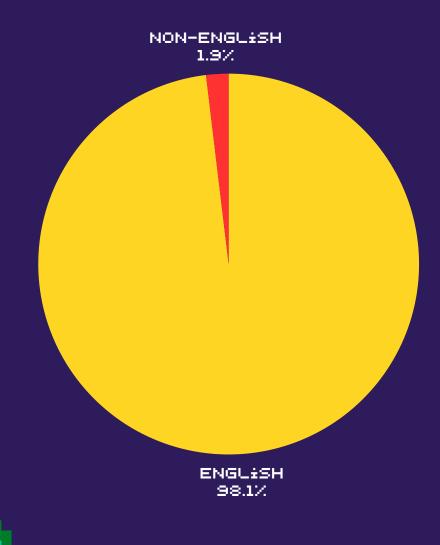


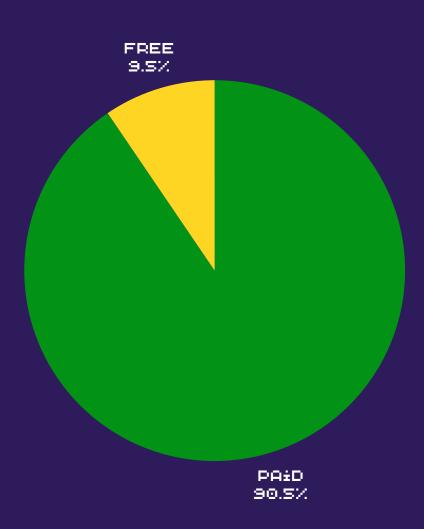


In this section did basic data cleaning such as checking the missing values and duplicated values, and the results are none! Next I feature engineer a few things to make easier analysis, such as creating a new column called overall reviews and free.



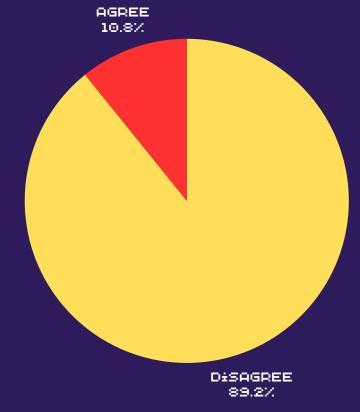
appid	0
name	0
release_date	0
english	0
developer	0
publisher	0
platforms	0
required_age	0
categories	0
genres	0
steamspy_tags	0
achievements	0
positive_ratings	0
negative_ratings	0
average_playtime	0
median_playtime	0
owners	0
price	0
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Pie chart on the left shows that there are almost 100% of the games are in English. On right it shows that more than 90% of games on steam is paid and not free.

Is Price the problem for gamers on Steam?



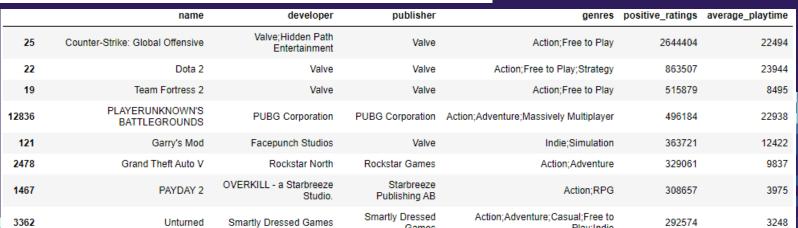
Pie Chart above shows that most gamers that buy games on Steam do not mind paying for games.

name	genres	negative_ratings	average_playtime
The Abbey of Crime Extensum	Adventure;Free to Play	22	190625
The Banner Saga: Factions	Free to Play;Indie;RPG;Strategy	202	95245
The Secret of Tremendous Corporation	Adventure; Casual; Free to Play; Indie	50	95242
PRICE	Adventure;Casual;Indie	233	63481
Boundless	$Action; Adventure; Indie; Massively\ Multiplayer; RPG$	486	55204
Shroud of the Avatar: Forsaken Virtues	Free to Play;Massively Multiplayer;RPG	1017	54618
X-Plane 11	Simulation	443	44169
懒人修仙传	Casual;Indie;RPG;Simulation	164	43632
Fantasy Grounds	Indie;RPG;Strategy	100	43074
	The Abbey of Crime Extensum The Banner Saga: Factions The Secret of Tremendous Corporation PRICE Boundless Shroud of the Avatar: Forsaken Virtues X-Plane 11	The Abbey of Crime Extensum The Banner Saga: Factions The Secret of Tremendous Corporation PRICE Boundless Action;Adventure;Indie;Massively Multiplayer;RPG Shroud of the Avatar: Forsaken Virtues X-Plane 11 \$\overline{\text{bulk}}\$ \text{Casual;Indie} \text{Casual;Indie;RPG;Simulation}	The Abbey of Crime Extensum Adventure;Free to Play 22 The Banner Saga: Factions Free to Play;Indie;RPG;Strategy 202 The Secret of Tremendous Corporation Adventure;Casual;Free to Play;Indie 50 PRICE Adventure;Casual;Indie 233 Boundless Action;Adventure;Indie;Massively Multiplayer;RPG 486 Shroud of the Avatar: Forsaken Virtues Free to Play;Massively Multiplayer;RPG 1017 X-Plane 11 Simulation 443 懒人修仙传 Casual;Indie;RPG;Simulation 164

Does average playing time effects negative and positive ratings?

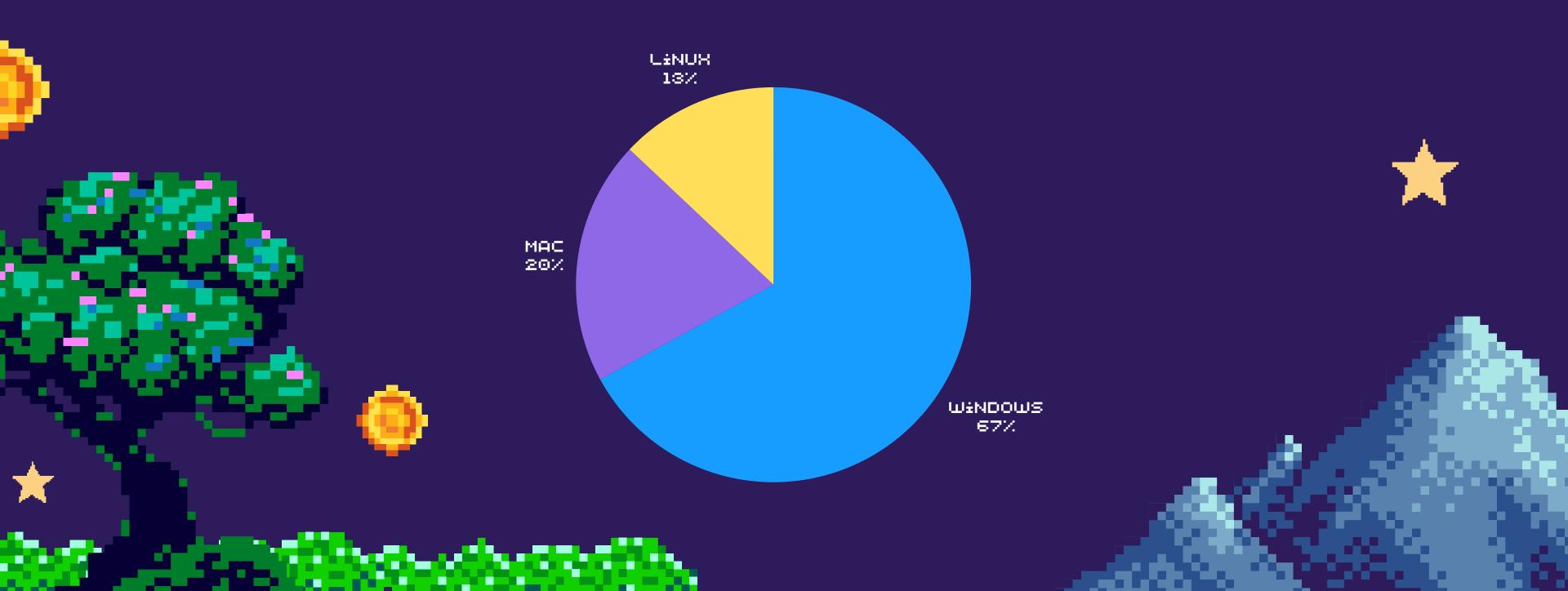
name genres positive_ratings average_playtime 9201 The Abbey of Crime Extensum Adventure; Free to Play 1478 Free to Play;Indie;RPG;Strategy 569 95245 The Banner Saga: Factions 95242 218 The Secret of Tremendous Corporation Adventure: Casual: Free to Play: Indie 4198 63481 8969 PRICE Adventure: Casual: Indie 55204 3930 1153 Boundless Action: Adventure: Indie: Massively Multiplayer: RPG 54618 1065 Shroud of the Avatar: Forsaken Virtues Free to Play; Massively Multiplayer; RPG 44169 2435 X-Plane 11 Simulation 2033 23409 Casual:Indie:RPG:Simulation 404 懒人修仙传 2023 **Fantasy Grounds** 377 43074 Indie:RPG:Strategy

We can clearly see that games with so much higher average play time gets much less reviewer.



Action: Adventure: Indie: RPG

Distribution of Games Across platforms

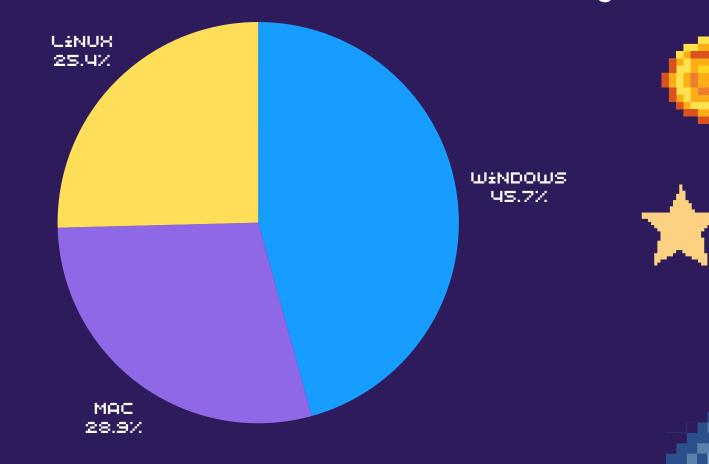


Platform distribution based on Negative Ratings



19%

Platform distribution based on Positive Ratings



From the chart above we can see that there are more negative ratings on windows compared to the positive ratings

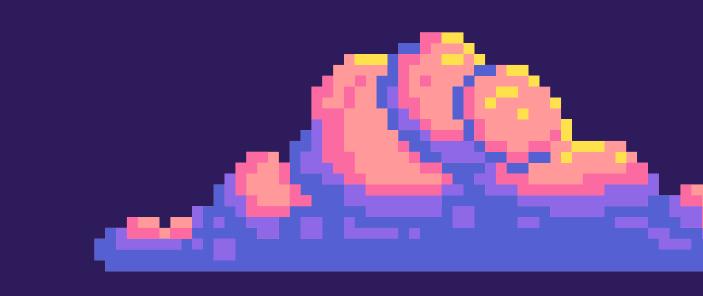
W£NDOWS 62%

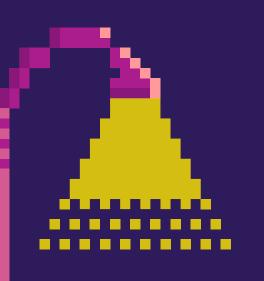


RECOMMENDATION

SYSTEM

Below is a recommended games using global filtering, where it shows the games with the most positive ratings on steam.





	name	developer	publisher	genres	positive_ratings
25	Counter-Strike: Global Offensive	Valve;Hidden Path Entertainment	Valve	Action;Free to Play	2644404
22	Dota 2	Valve	Valve	Action; Free to Play; Strategy	863507
19	Team Fortress 2	Valve	Valve	Action;Free to Play	515879
12836	PLAYERUNKNOWN'S BATTLEGROUNDS	PUBG Corporation	PUBG Corporation	Action; Adventure; Massively Multiplayer	496184
121	Garry's Mod	Facepunch Studios	Valve	Indie;Simulation	363721
2478	Grand Theft Auto V	Rockstar North	Rockstar Games	Action; Adventure	329061
1467	PAYDAY 2	OVERKILL - a Starbreeze Studio.	Starbreeze Publishing AB	Action;RPG	308657
3362	Unturned	Smartly Dressed Games	Smartly Dressed Games	Action; Adventure; Casual; Free to Play; Indie	292574
1120	Terraria	Re-Logic	Re-Logic	Action;Adventure;Indie;RPG	255600
21	Left 4 Dead 2	Valve	Valve	Action	251789





<u>PECOMMENDATION</u> System

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

