

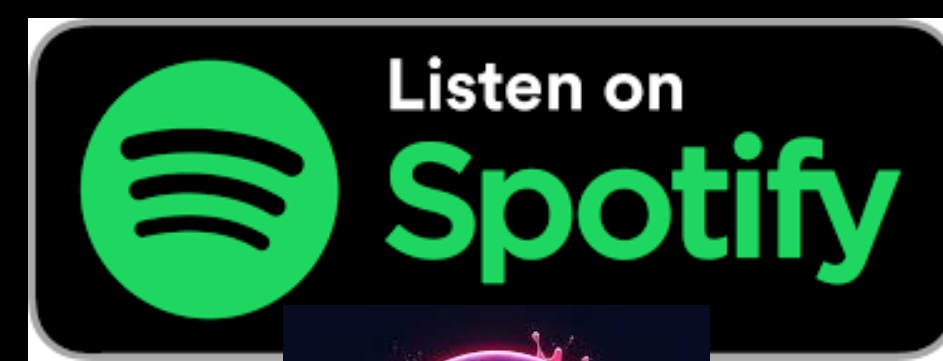


SPOTIFY MUSIC: TRACKLIST STREAMING NETWORK

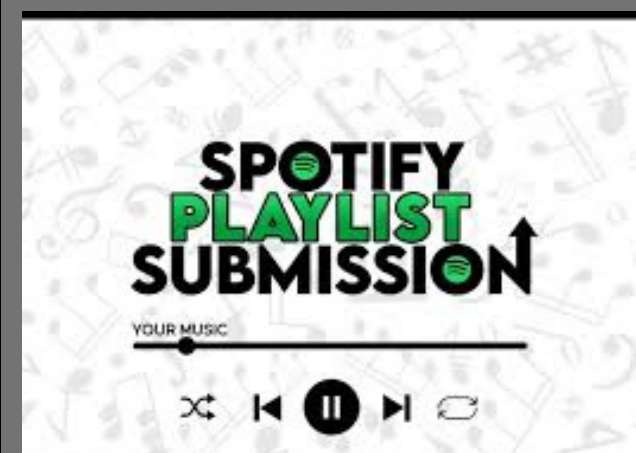


GROUP 27

- GEORGE OBAZI ISEK
- KAINAT TANVEER BUKHARI



- STEPHANIE CHIOMA IBEANU
- FADASH MOHAAMED KUTTIKUTHIA



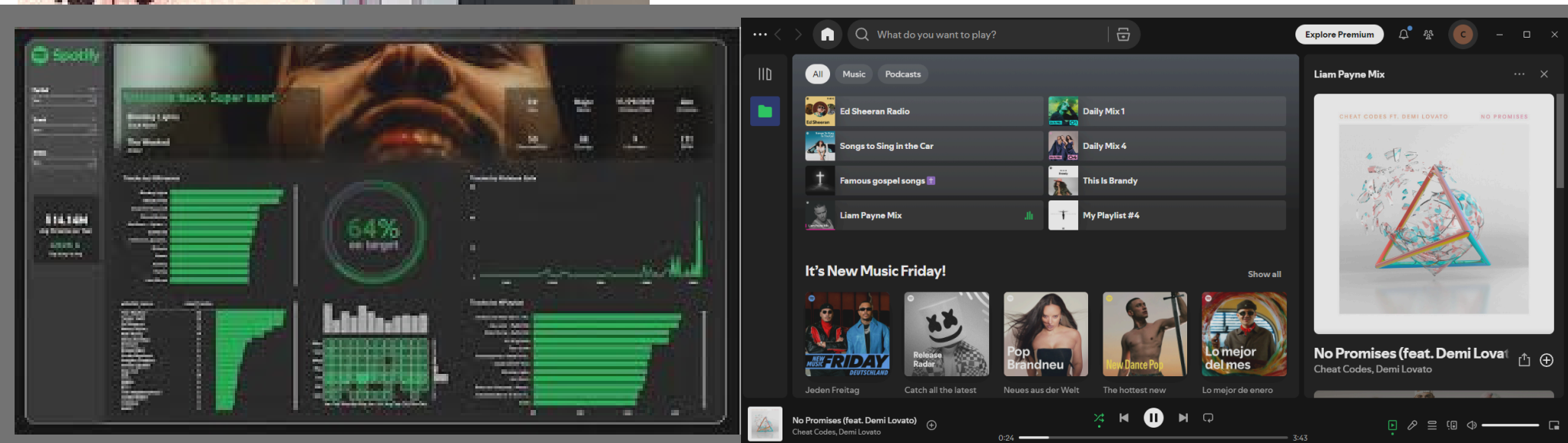
Research Question:

Can track popularity in a tracklist database correlate with the discovery of new artists.



Motivation:

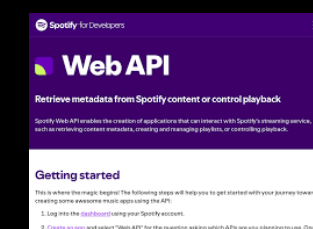
Streaming platforms are essential for promoting new artists. This research question analyzes whether high track popularity are influential tools for introducing new artists to a larger fan base.



Data:



- Data was collected from Spotify Web API. The spotify library was used to retrieve data using the client ID and Secret we generated.



- Data cleaning and processing were made.



- From our previous data, we were able to create a new variable "Is New Artist", which is part of our research question.
- Tools: Pandas, Spotify library for API, Matplotlib, Python, Seaborn.

Methods:

- Point-Biserial correlation was used to perform statistical test, whether there is relation between track popularity and discovery of new artists. It was used since a variable is binary.
- We also created scatter plot, bar plot and histogram to explore data patterns in our visualisation.

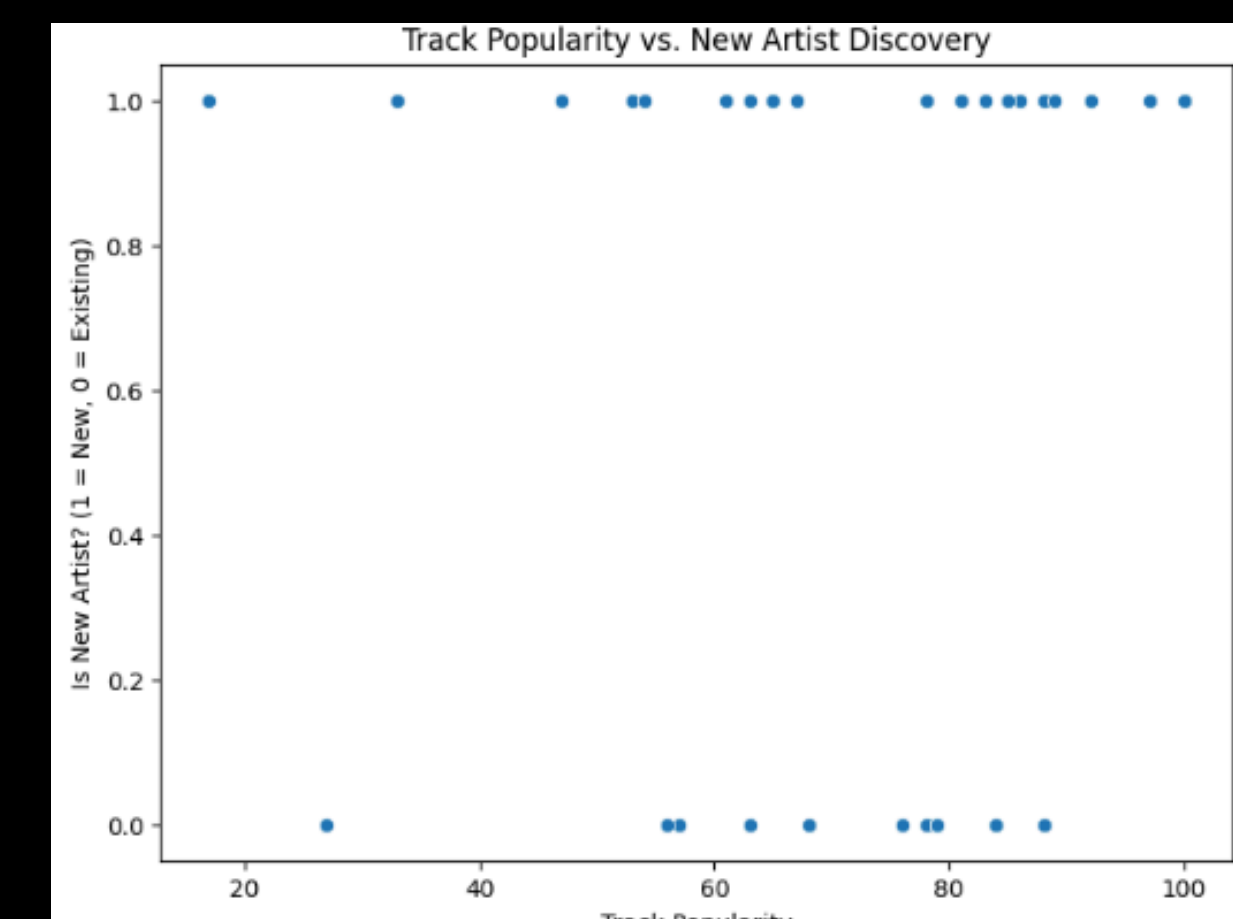


Results:

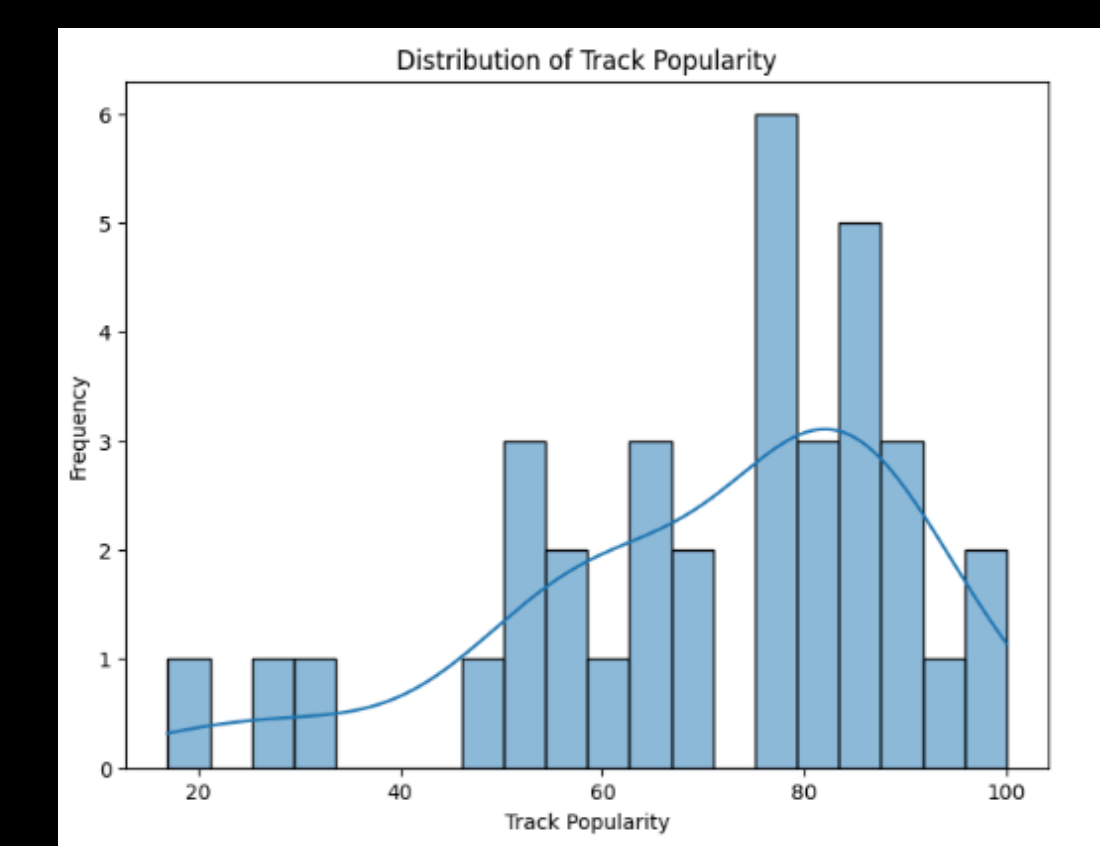
- From our analysis using Point-Biserial correlation, we found the correlation of 0.0508 with P-Value 0.771, which shows a weak correlation between track popularity and new artists and there is statistically insignificant among variables.



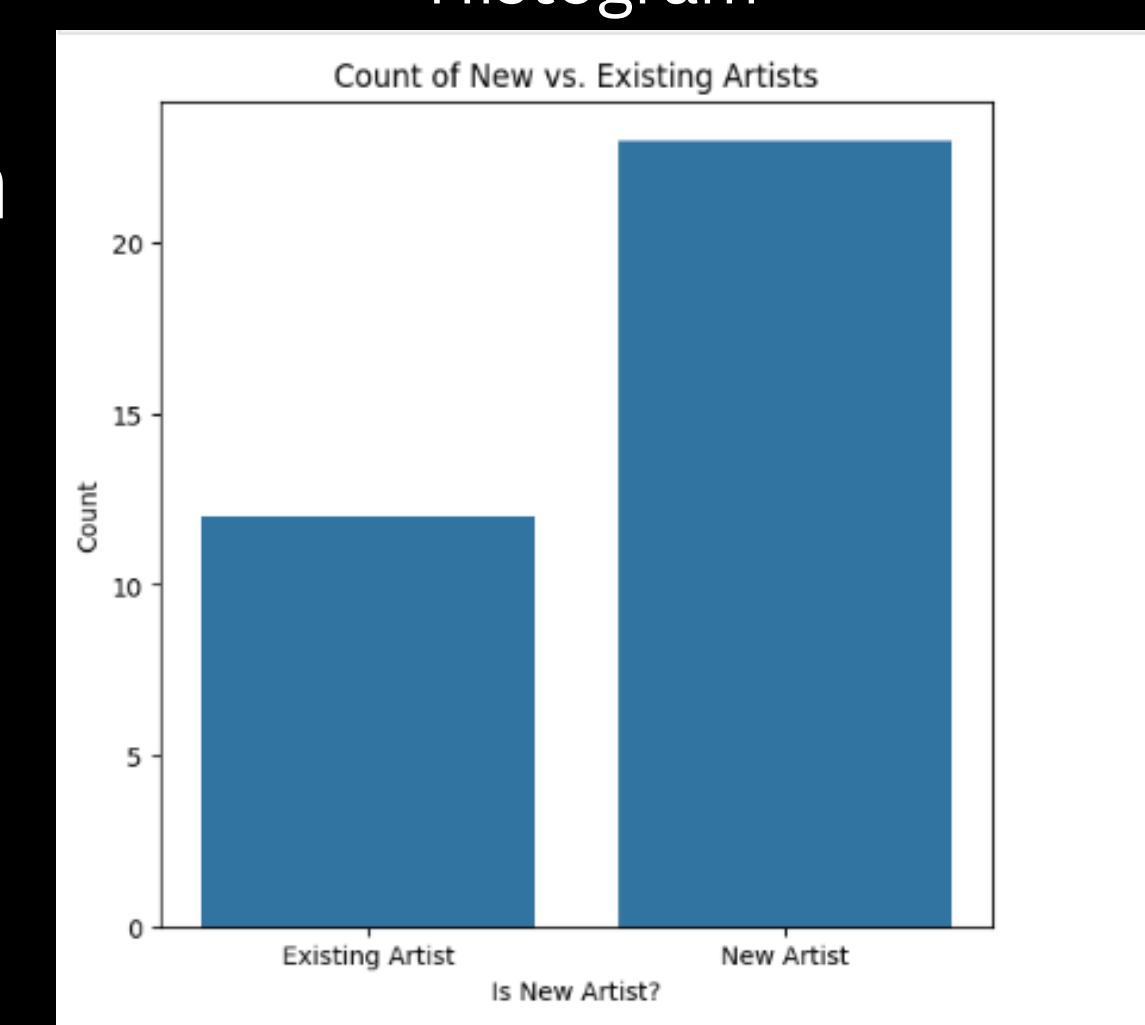
- Scatter plot: It shows no group clustering. it was scattered randomly. Therefore no correlation among the two variables.



- Histogram: It shows that the track popularity of 70-75 has the highest frequency in the distribution.



- Bar plot: This shows the comparison between new artist and existing artist. it gives proper proportion between new and existing artists.



Conclusion:

- In our analysis we were able to find out from our correlation that track popularity on its own cannot lead to the discovery of new artists.
- This analysis was limited to only Spotify platform dataset, therefore making the size of our dataset small.
- For future analysis or research, other data from Apple Music, YouTube etc. should be included.

