

Predictive signal of the Project Exam Help

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Individual Course Western Individual Course

PLAN



- 1. Visualizationssignment Project Exam Help
- 2. Narrative

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3. Methodology

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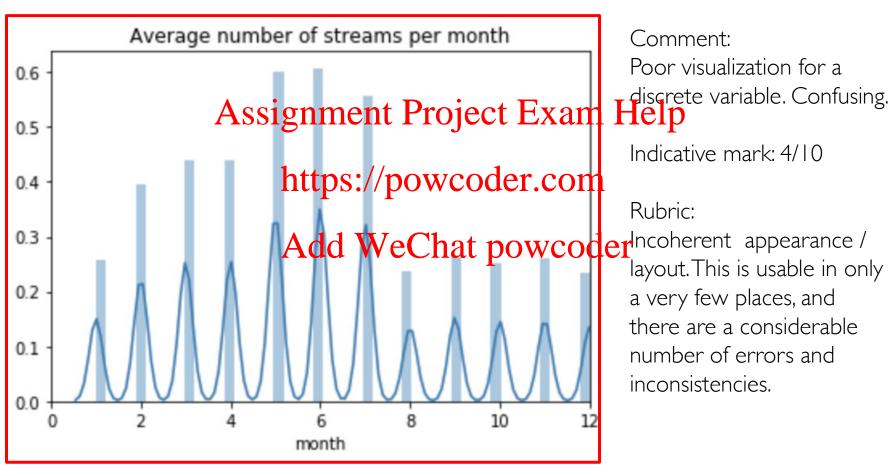
4. Code



Assignment Project Exam Help





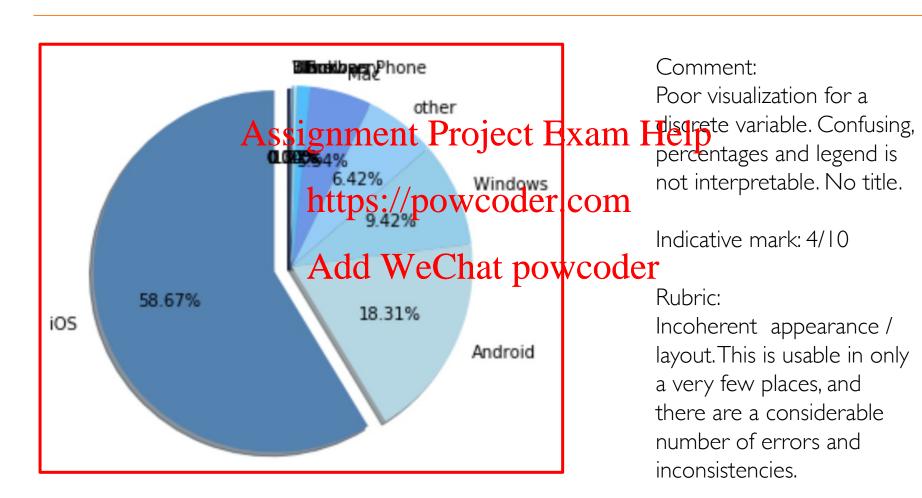


Poor visualization for a

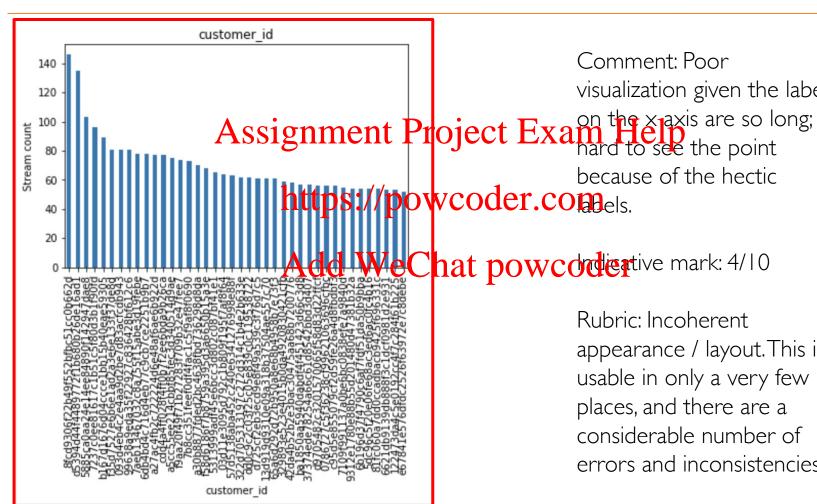
Indicative mark: 4/10

layout. This is usable in only a very few places, and there are a considerable number of errors and





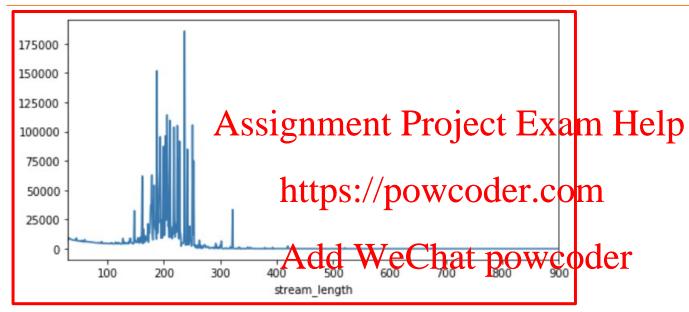




Comment: Poor visualization given the labels because of the hectic

Rubric: Incoherent appearance / layout. This is usable in only a very few places, and there are a considerable number of errors and inconsistencies.





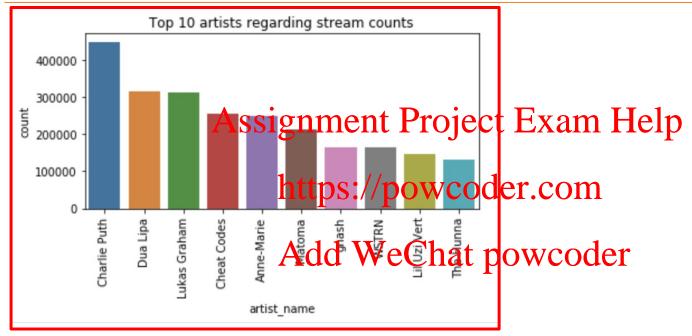
Comment: Poor visualization for this type of variable – bar chart would make more sense. Lacks title and description of the y axis.

Indicative mark: 5/10

Rubric: The report generally has a clear structure, although it would benefit from further development. Some errors and inconsistencies.

DETAILS





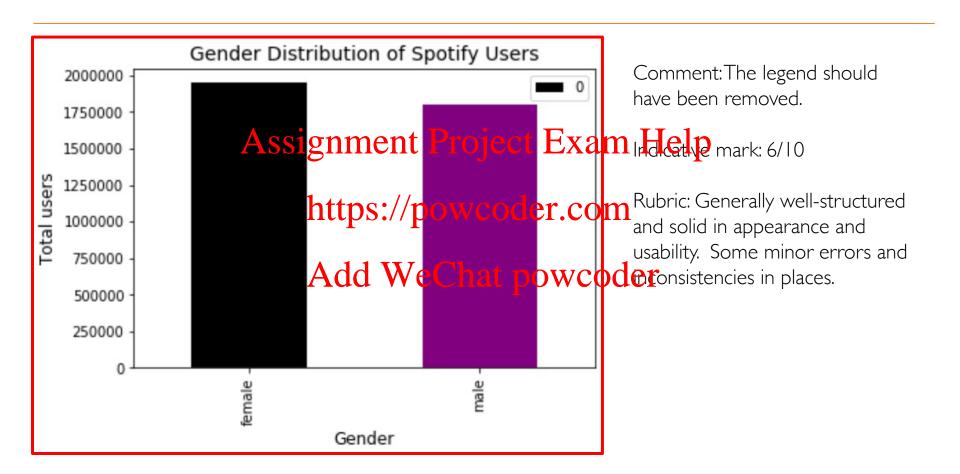
Comment: Using multiple colors makes this chart harder to interpret. Try to use different colors when it helps the reader extract more information.

Indicative mark: 6/10

Rubric: Generally well-structured and solid in appearance and usability. Some minor errors and inconsistencies in places.

DETAILS







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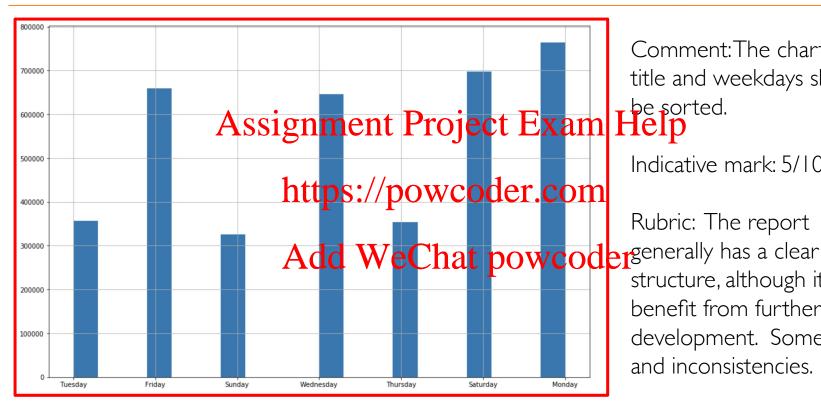
Comment: Use of multiple colors not relevant, title and axis descriptions are missing.

Indicative mark: 3/10

Rubric: Incoherent appearance / layout. This is usable in only a very few places, and there are a considerable number of errors and inconsistencies.

WEEKDAYS





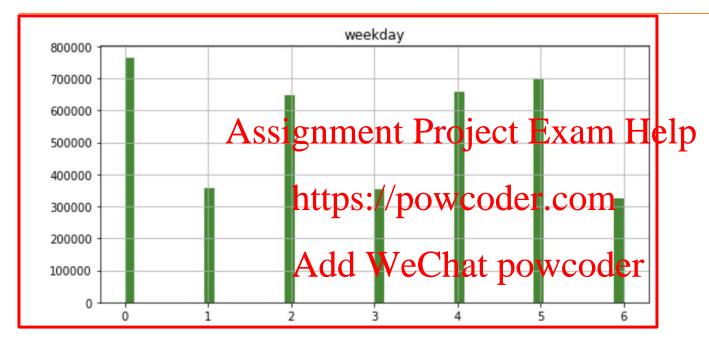
Comment: The chart lacks title and weekdays should

Indicative mark: 5/10

Rubric: The report structure, although it would benefit from further development. Some errors and inconsistencies.

WEEKDAYS





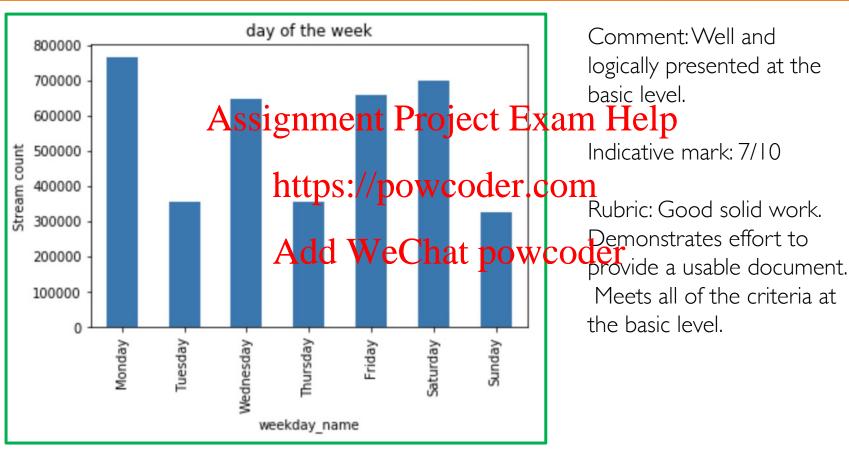
Comment: Counterintuitive labels on x axis.

Indicative mark: 5/10

Rubric: The report generally has a clear structure, although it would benefit from further development. Some errors and inconsistencies.

WEEKDAY





logically presented at the

Rubric: Good solid work. Meets all of the criteria at

WEEKDAY



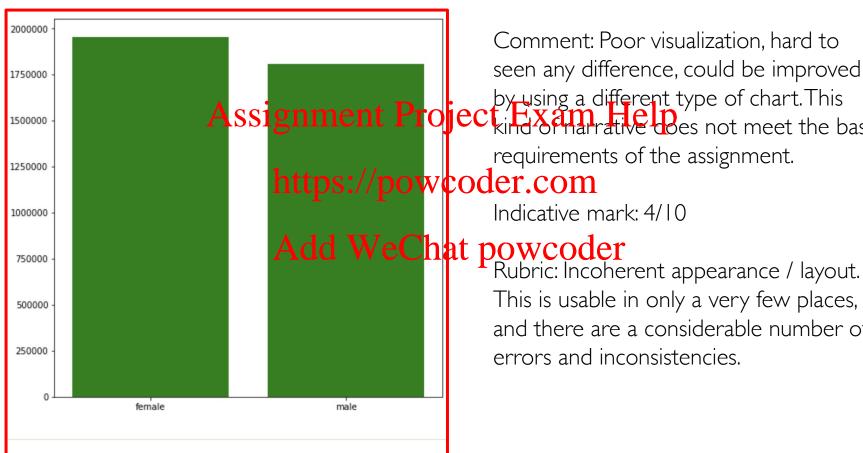


Comment: Well and logically Add to that ipowcoder

Indicative mark: 7/10

Rubric: Good solid work. Demonstrates effort to provide a usable document. Meets all of the criteria at the basic level.





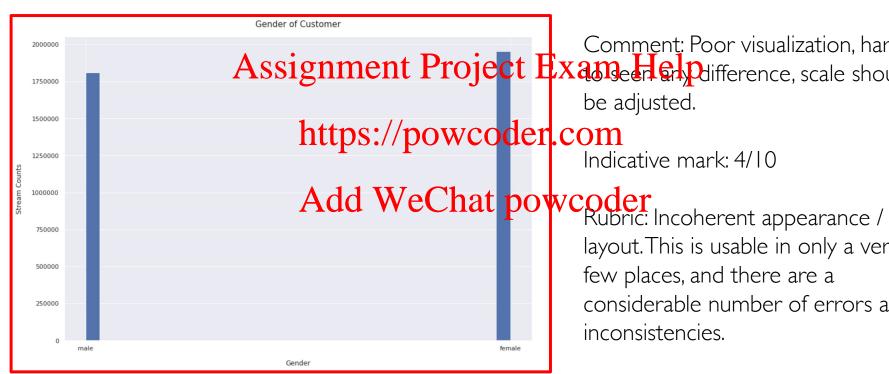
The above illustrates that there are more female artists compared to male.

Comment: Poor visualization, hard to seen any difference, could be improved Assignment Project by using a different type of chart. This has been sometimed by the project indicates the basic project in the basic project pro requirements of the assignment.

Indicative mark: 4/10

This is usable in only a very few places, and there are a considerable number of errors and inconsistencies.



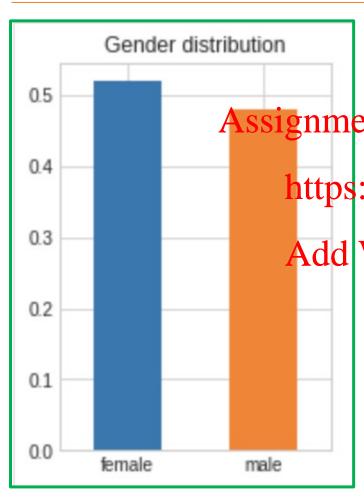


Comment: Poor visualization, hard Assignment Project Exame Helpdifference, scale should be adjusted.

Indicative mark: 4/10

layout. This is usable in only a very few places, and there are a considerable number of errors and inconsistencies.



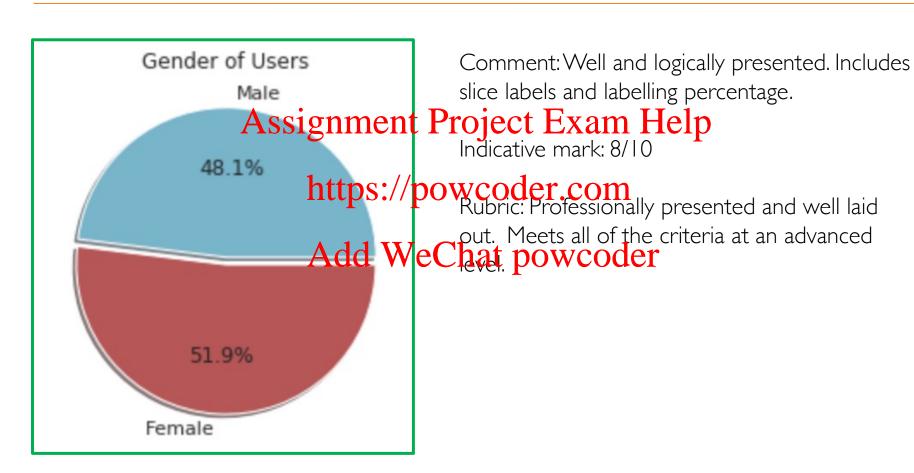


Assignment Project Exam Help Comment: Well and logically presented.

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Add WeChatpowcoder Demonstrates effort to provide a usable document. Meets all of the criteria at the basic level.







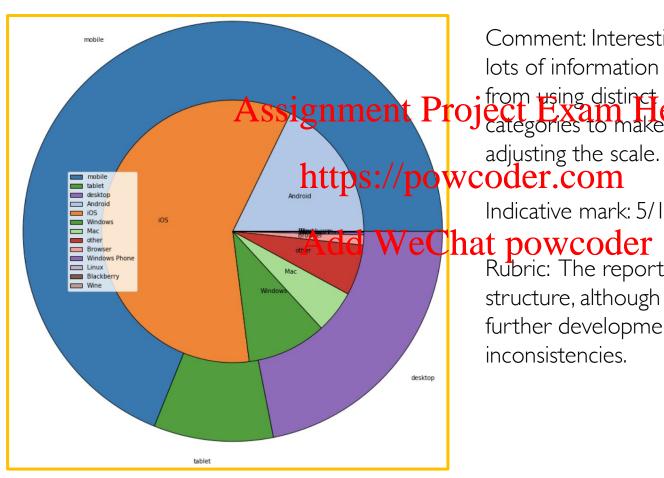


Comment: Poor visualization, does not show anything useful.

Indicative mark: 4/10

Rubric: Incoherent appearance / layout. This is usable in only a very few places, and there are a considerable number of errors and inconsistencies.



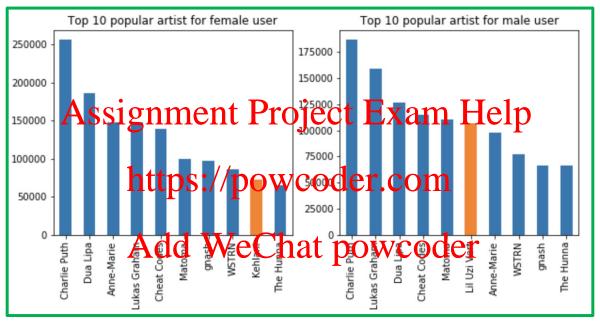


Comment: Interesting visualization, showing lots of information although would benefit Assignment Project Exam Help categories to make it clear, as well as

Indicative mark: 5/10

WeChat powcoder
Rubric: The report generally has a clear structure, although it would benefit from further development. Some errors and inconsistencies.



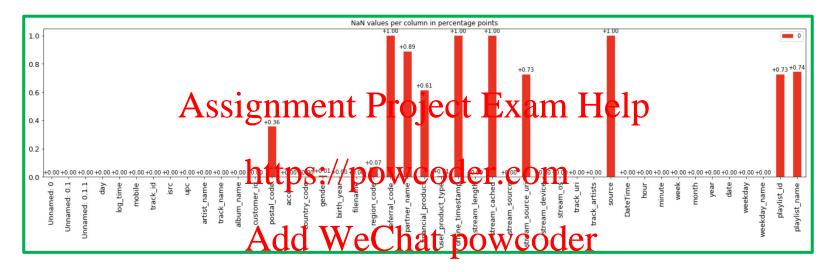


Comment: Very good use of color, clearly emphasizes the point.

Indicative mark: 7/10

Rubric: Good solid work. Demonstrates effort to provide a usable document. Meets all of the criteria at the basic level.



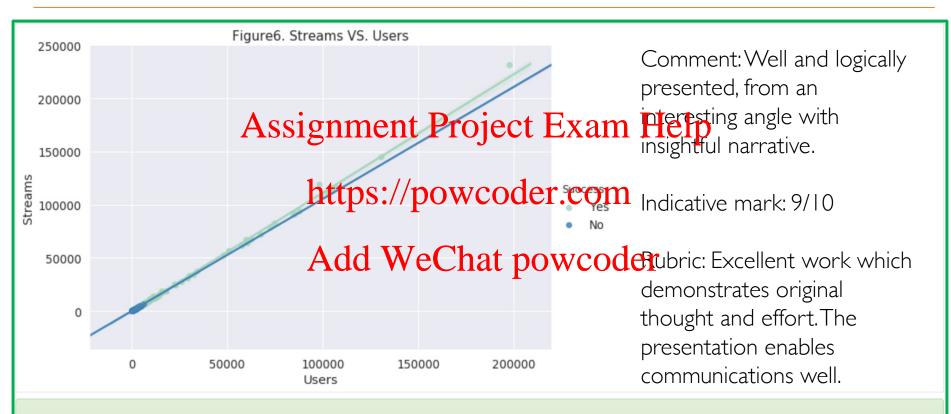


Comment: Very interesting way to show missing values, nicely presented, demonstrates effort, would benefit from removing the legend.

Indicative mark: 7/10

Rubric: Good solid work. Demonstrates effort to provide a usable document. Meets all of the criteria at the basic level.





Random Lovers vs Loyal Fans

Are the successful artists better at attracting more random audience or loyal fans? It turns out they are good at both. The statistics and figure show that on average, the songs of the successful artists receive a larger group of audience. Meanwhile, the fitted line success = 'Yes' has a higher slope, this means that more users listen to their songs more than once.



2.5 Conclusion

This concludes our data cleaning and exploration.

Assignment Project Exam Help

Comment: These comments per not preward process and unded not be included. The word limit for all 3 parts of the assignment is set at around 2000 words, such narratives are reducing the dalit where has proweder

Indicative mark: 1/10

Rubric: It appears that it may have been misunderstood what was required. The points are either copied from the case with no analysis or not clearly related to the events in the case.



Artist name

From this chart above, we oberse the top 10 artists are Charlie Puth, Dua Lipa, Lukas Graham, Cheat Codes and Anne-Marie, Matoma, gnash, WSTRN, Lil Uzi Vert, The Hunna. Charlie Puth, particularly, has more than 400,000 stream counts and others are around 200,000.

Assignment Project Exam Help

Comment: This narrative of the Reimschaffer that shown in the visualization and does not include any insight nor reasoning, which are the key.

Add WeChat powcoder

Indicative mark: 2/10

Rubric: Significant errors / omissions / unclear points. Much more work is needed to develop and support assertions.



This shows the dataset covers 661 unique artists. Charlie Puth ranks top 1 about the frequency of streams. The top 10 artists account for around 63% of the total data and they should be paid more attention

Assignment Project Exam Help

Comment: Very little insight typeser polyecoder is comment.

Indicative mark: 5/10 Add WeChat powcoder

Rubric: Arguments are generally along the right lines but a little weak in places. Scope to increase depth and breadth of analysis in many instances. Quite a few key points missed.



2.4.2 Artist name

Interesting findings:

- 1. The distribution of streams by artists is highly skewed. Most artists are streamed less than 44 times (median is 44), but the max is 446783 by Charlie Puth.
- 2. The graph of the count of streams by the top 30 artists shows an exponential (decreasing) distribution Help

Comment: No reasoning included, a provided the requirements are satisfied. This narrative puts the visualization in context of the case study and is very relevant to the point of the assignment. Add WeChat powcoder

Indicative mark: 6/10

Rubric: A solid analysis which covers many of the key issues, although scope for further analysis in some places. A few key points missed.

DEFINING THE PROBLEM



3.1 Forming our predictive problem

For our predictive problem we've decided to not deal with any artist who became succesful (i.e. featured on top 4 key playlists) in years 2014 to 2016 (red shaded area in the graph). In addition, we've selected to keep the information of who became succesful in 2017 while removing any transcactions from this year. The concept here is that based on transcactions from 2014 to 2016 we are trying to predict who became succesful in 2017 (yellow shaded area in the graph).

2016. Based on these labels we subset our initial dataset.

s://powcoder.com Artists in Add WeChat powcoder Rubric: Very good points, 2014, 2015, 2016

Comment: Unique and well-thought approach, not only explained but Hasppresented with a figure.

Indicative mark: 8/10

with well-supported arguments which relate clearly to events in the case study.

METHODOLOGY



User-based Features

User-based features can be strong indicators for the success of artists. Based on the exploratory analysis before, we use age, gender, and user-product breakdown as the user-based features. In addition, previous analysis shows that successful artists has higher concentration of streams from May-June, so we add a month-stream breakdown here to capture this propensity.

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Comment: Logically presented, well reasoned, but lacking depth.

Indicative mark: 7/10

Add WeChat powcoder

Rubric: Points are generally relevant. But could go further in identifying the breadth of issues raised by the case. Overall good, solid work. Meets the requirements of the assessment.

METHODOLOGY



String handeling

Because some artists appear twice with the only difference beeing a capitalized letter, and we put huge emphasize on the success of individual artists, we need to standardize the spelling of artists' name. Thats why we lowercase every letter right at the beginning to avoid later problems.

To be noted is that the data also contains some artists with a "&" in their name, indicating more than one artist on these particular rows. Due to ambiguity in how to deal with those instances, it was decided to leave them as is, and count them as one artist, which makes sense as these instances are mostly duos like "zion & lennox". Compared to this some bands also contain South in the track name column.

https://powcoder.com
Comment: Important issue has been identified, handled, and explained.

Indicative mark: 8/10

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Rubric: Very good identification of the key issues in the case. Meets the requirements at an advanced level.

METHODOLOGY



Playlist Score is calculated as follows:

\$\$ Playlist Score = \sum {i=1}\\20} (nstreams i \times passionscore i \times weight i) \$\$

Where variables are:

- 1. **n_streams** is the number of streams that playlist ith had overall
- 2. passion_score is the passion sare of ith playlist in streams/unique project Exam Help 3. weight is n times an artist has been featured on playlist ith/n times artist has been featured in all his/her top 20 playlists

Intuition:

The reason for this score is that it combines overal powers of playlists within top_20 playlists of a particular artist. Although this is a single number, this number holds a lot of information on it. We will later see that the playlist score actually has the biggest correlation with artist successfulness dependent variable.

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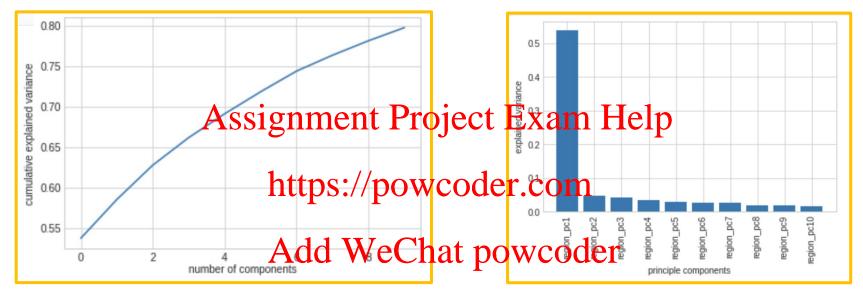
Comment: Going an extra mile in understanding the problem, demonstrates preparation to tackle the problem. Use of LaTeX to write an equation is appreciated.

Indicative mark: 8/10

Rubric: Excellent work. Points are entirely relevant and focus clearly on the issues in the case. Very good identification of the key aspect that exceeds the scope of the basic requirements.

PCA





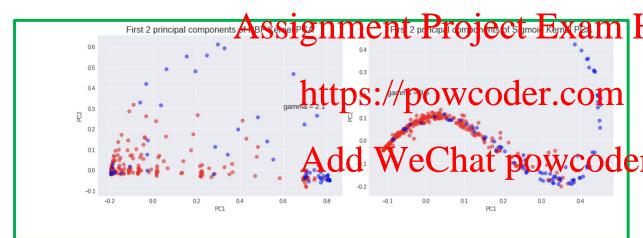
Comment: Clearly presented explained variance and/or cumulative variance. Any of the above sufficiently illustrates the concept.

Indicative mark: 6/10

Rubric: Generally well-structured and solid in appearance and usability. Some minor errors and inconsistencies in places.

PCA





RBF and Sigmoid Kernel plots

The first two components from the kernel PCA are plot against each other. The red and blue plot represents the not success and successful artists respectively. The right hand side of the Sigmoid kernel and the top part of the RBF kernel shows quite clear separation between the two groups of artists.

Comment: Presenting the relationship between the first two components shows

Hedpstanding of the subject and beneficial for the overall analysis. Would benefit from an insightful comment for the purpose of assessing the narrative.

Indicative mark: 8/10

Rubric: Professionally presented and well laid out. Meets all of the criteria at an advanced level.

CODE ANNOTATION



```
data['age']=2020-data['birth_year']

histogram_birth_year = data['age']
histogram_birth_year = histogram_birth_year.hist(figsize=(10, 7), bins=300,

xlabelsize=12, ylabelsize=12,
ASSIGNMENTATE TO BE False, X Atine (Tempage repartition"),plt.axis([10, 20])
```

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Comment: Basic code, no Add Mete Chain por Mete appropriate way.

Indicative mark: 4/10

Rubric: Some evidence of additional sources, although not all are very robust

CODE ANNOTATION



Taking a closer look at 1950-2017 and noticing the peaks at 1980, 1990 to the decided bar', figsize=(20,5));

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Comment: Nice code, with ddic Wie Chat powcoder

Indicative mark: 6/10

Rubric: Good sources in places but use of quality sources could be extended.

CODE ANNOTATION



Comment: Nice code, comments enable reader to easily understand the code.

Indicative mark: 8/10

Rubric: Very good work with relevant and robust sources. Very good referencing and documentation of code.



```
# Plot differently through an heatmap import seaborn as sns

Assignmentatoroject Exam Help plt.figure(figsize=(15,10)) sns.heatmap(map,cmap='twilight') https://powcoder.com
```

Add WeChat powcoder Comment: Using a built-in function's name as a variable will make it difficult to use the function later in the notebook and is generally frowned upon.

Indicative mark: 1/10

Rubric: Very little or no evidence of use of sources beyond the course materials



Comment: Leaving errors shows lack of understanding of the key concepts of coding and lack of problem-solving attitude which is crucial for a successful analysis.

Indicative mark: 1/10

Rubric: Very little or no evidence of use of sources beyond the course materials



```
#top20 playlists decided by # unique users/customer_ids per playlist

top20_b=data.groupby(["artist_name",'playlist_name'])["customer_id"].nunique().reset_index(name="# of users")

c = top20_b.groupby(["attist_name"]).apply(lambda Px_sort_values([# of users"], Help

d = c.groupby('artist_name').head(20)

d.loc[d['artist_name'] == 'Anne-Marie'] >= 'Anne-Marie' | Anne-Marie' | An
```

Add WeChat powcoder

Comment: Using variable names that are meaningful will enable the reader (as well as the author) to understand the code more easily and will reduce the need for comments.

Indicative mark: 3/10

Rubric: Some limited evidence of additional sources, although not very robust ones



```
# Number of users per artist

def numberofusers_per_artist(data):
    unique_users = data.groupbA'ertist_perenticutered Project Example of customer_id for each artist
    unique_users = pd.DataFrame(unique_users)
    unique_users['unique_users'] = [len(i) for i in unique_users.customer_id] #return number of unique users for each artist
    unique_users.drop('customer_id', axis=1, inplace=True) #drops the customer_id column
    return unique_users

numberofusers_per_artist(all_artists)
```

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Comment: Using functions is an important part of coding, so is using relevant comments.

Indicative mark: 7/10

Rubric: Good, solid sources and referencing. In places, the use of code source and documentation could be improved / extended but overall good, solid work.

THANK YOU



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