

1. Introduction

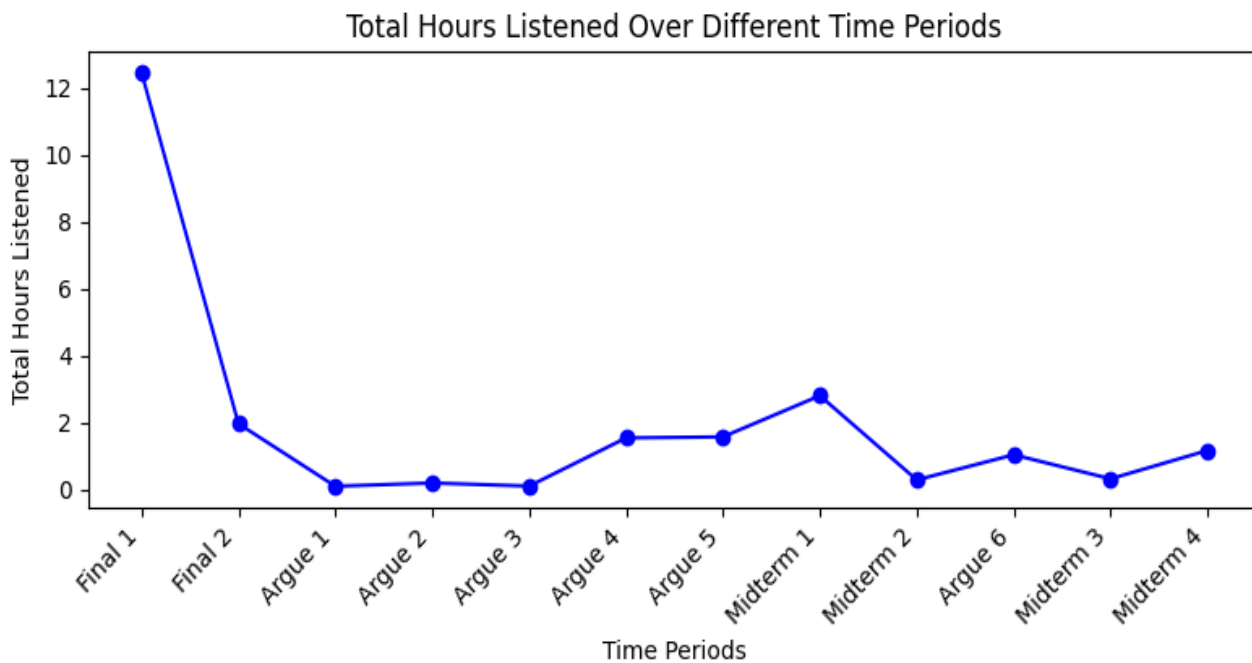
This project's goal was to examine patterns of listening to music throughout predetermined time periods, with an emphasis on significant events like exams and problems between individuals. The objective was to find any possible relationships between musical preferences and emotional states by examining the genres and popular songs during these times.

2. Data Collection

The dataset used in this project was sourced from Spotify, encompassing a comprehensive record of the user's music listening history. It includes crucial details such as song titles, artist names, timestamps, and play durations. A preprocessing step involved converting timestamps to datetime objects for ease of analysis.

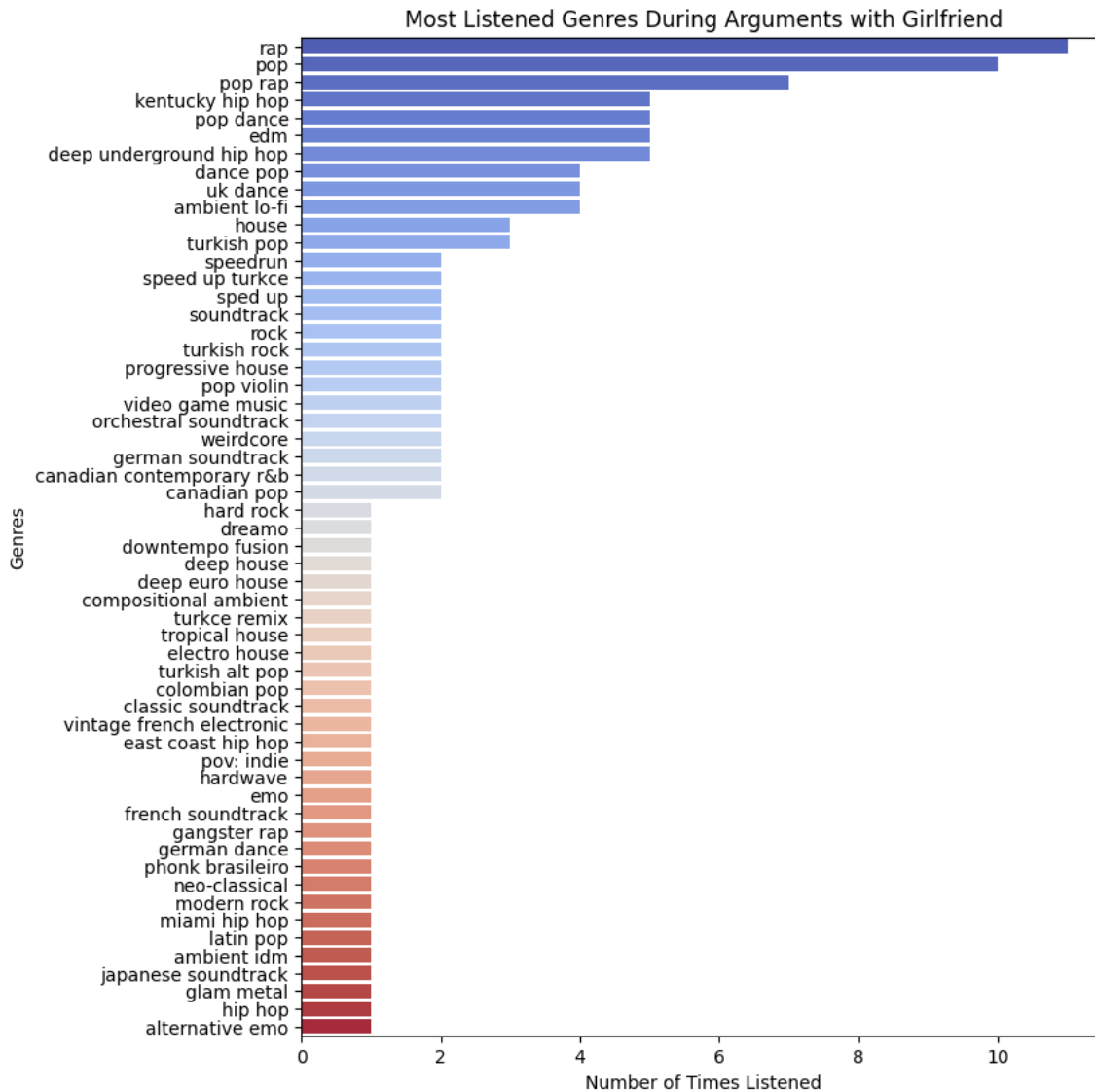
3. Analysis and Findings

3.1 Total Hours Listened Over Time

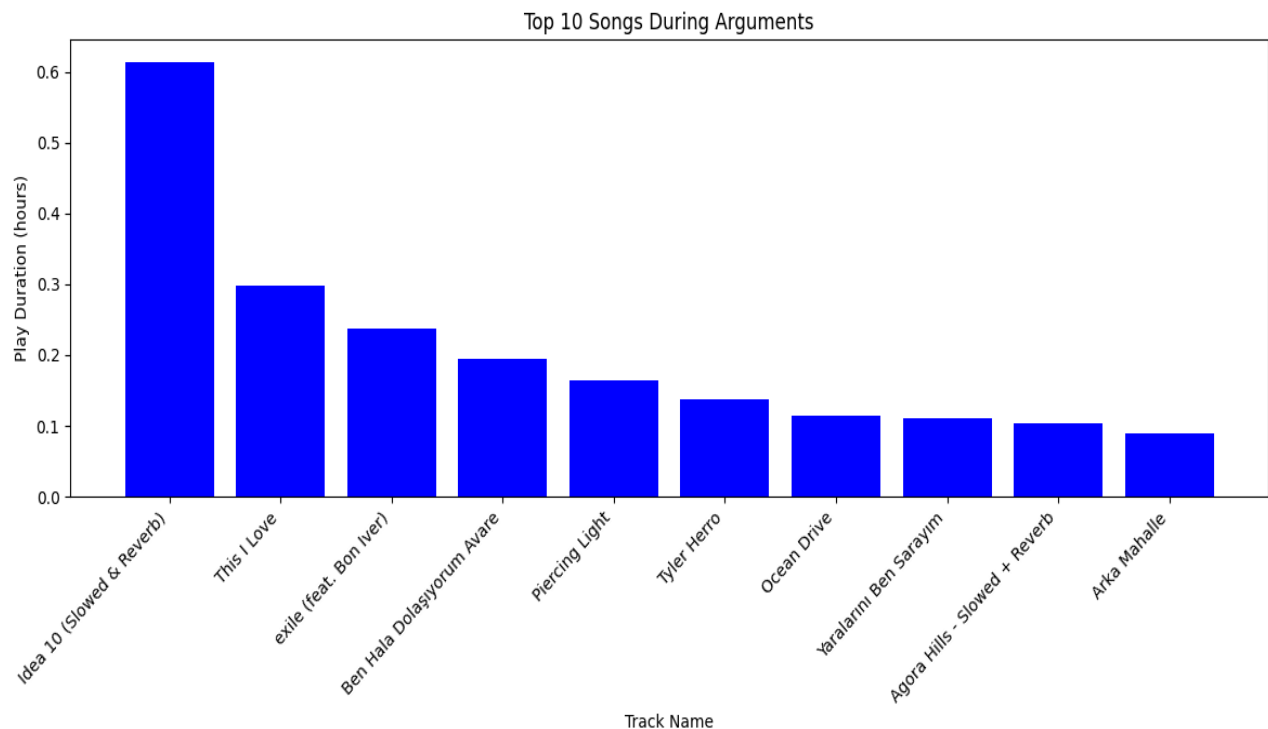


During Final 1 period my exams were back-to-back, so I was studying non-stop also listened a lot of music while studying. That is why there is a huge peak there.

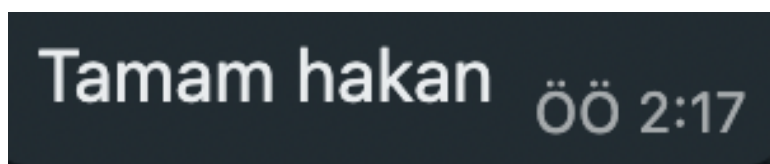
3.2 Most Listened Genres During Arguments



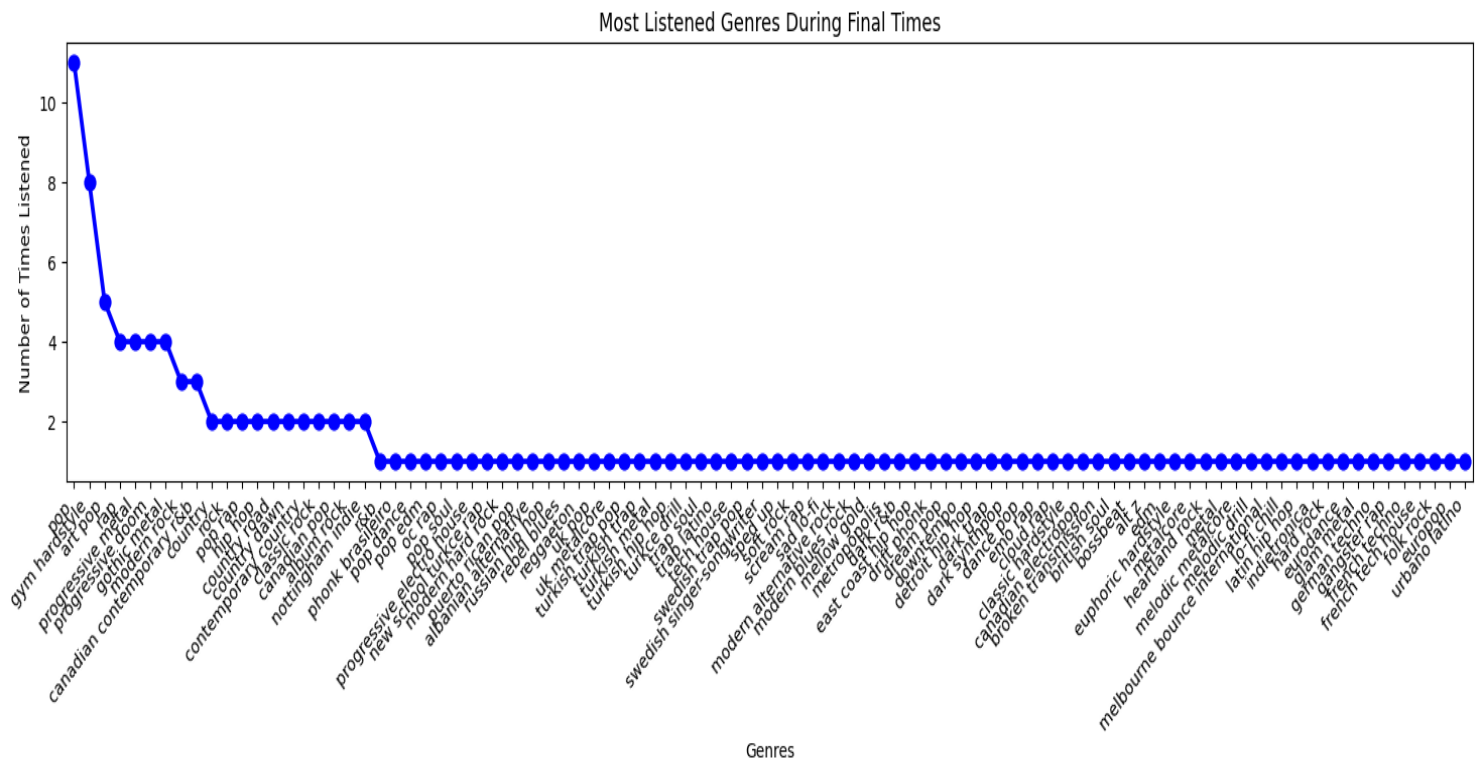
The accompanying point plot illustrates the distribution of music genres listened to during moments of argumentation. Each point on the plot represents a specific genre, and the vertical position of the point indicates the frequency of times that genre was played. Genres such as Rap, Pop, and Hip Hop emerge as the most prevalent, with Rap being the most frequently played genre during arguments, followed by Pop and Pop Rap. The plot offers insights into my music preferences and highlights the diversity of genres that accompany moments of tension or disagreement.



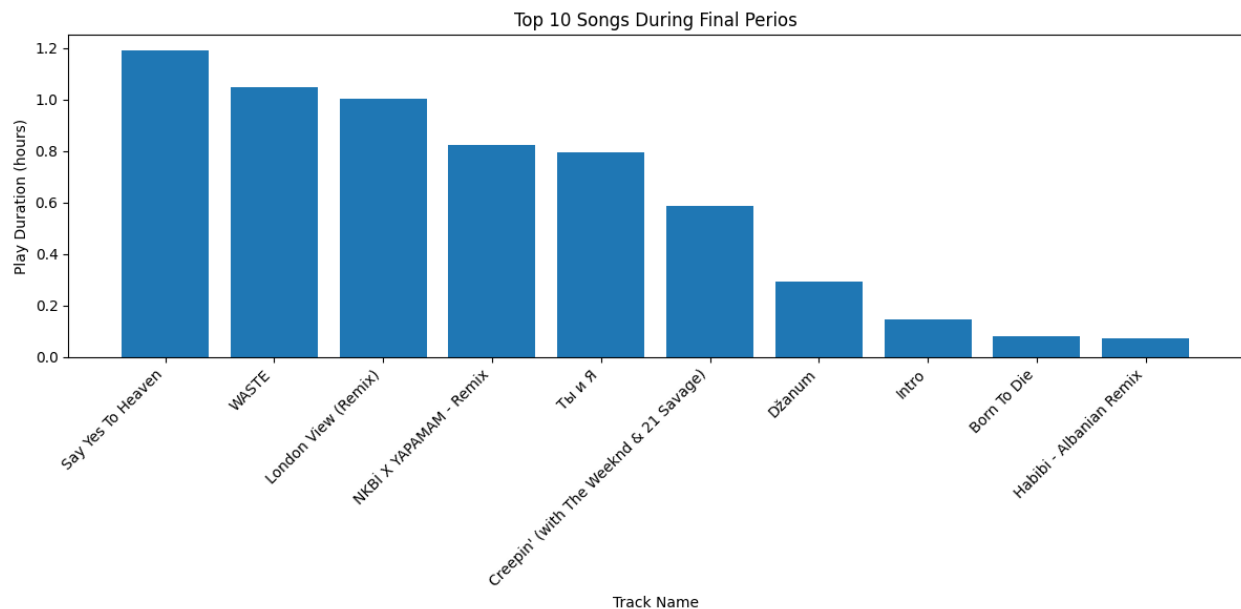
And these are the top 10 songs I listened during, before or after the argument with my girlfriend. I also found it interesting that although the most listened song types were rap and pop, the song I listened to the most was classical music. And just in case if you want to know how i found the exact dates that i argue with my girlfriend. I searched that words on Whatsapp



3.3 Most Listened Genres During Finals

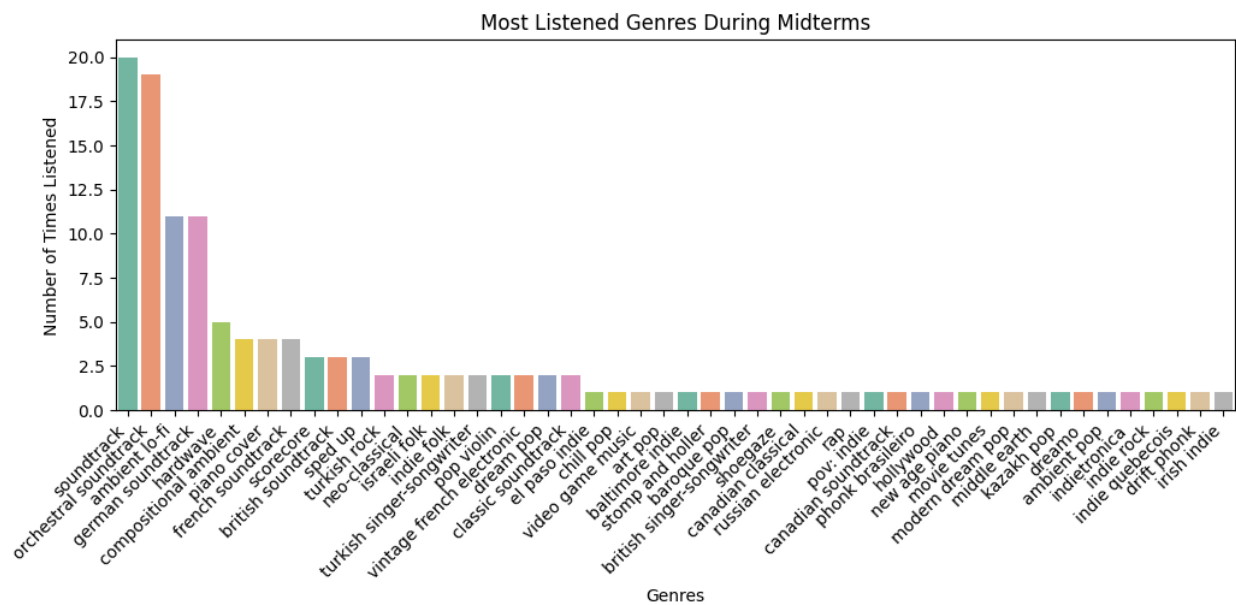


Since the final period is 2 weeks probably that is why there is a lot of genres I listened during that time.

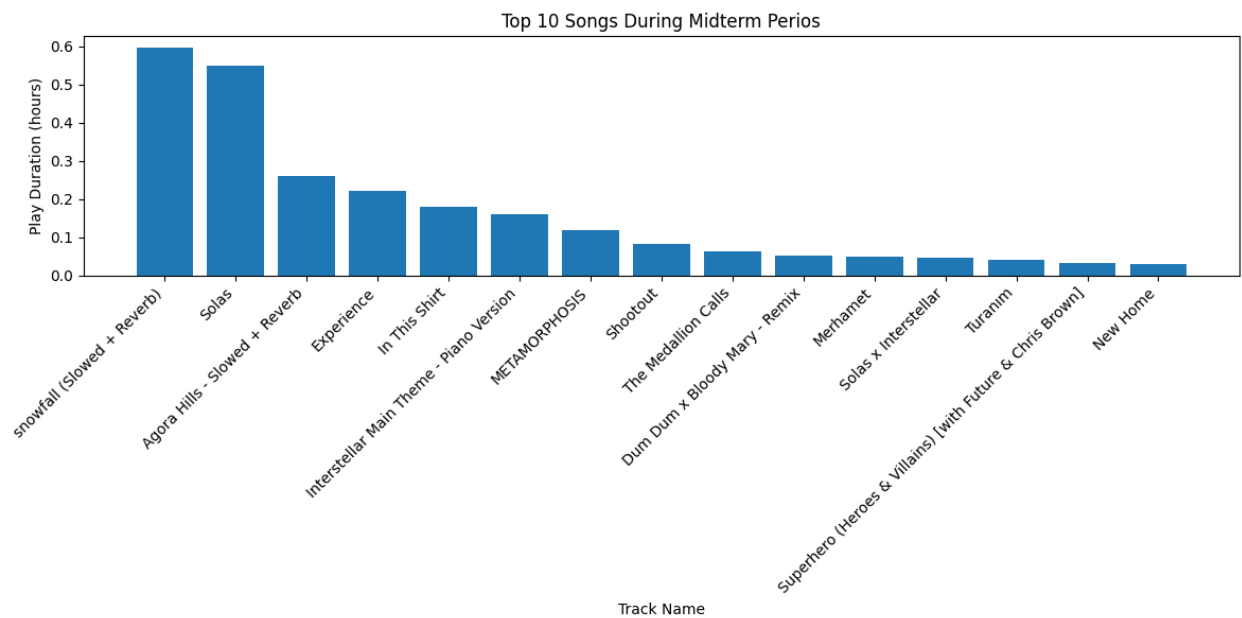


The compilation of my top 10 songs during the final period exemplifies the diversity inherent in my music preferences. This selection encompasses a spectrum of genres, ranging from UK drill rap to classical music, and from pop to a Russian composition.

3.4 Most Listened Genres During Midterms



The soundtrack genre is very similar to classical genre so they can be considered same



As you can see all the songs in my top 10, their genre either classical or soundtrack.

4. Methodology

Our analysis involved two main steps: calculating the total hours listened during specific time periods and identifying the most listened genres during that periods. The Spotify API was instrumental in fetching genre information for each song, enhancing the granularity of our findings.

5. Results

The findings highlighted changing trends in my listening habits during various life events. For instance, during exam weeks, there was a noticeable increase in the number of hours I spent listening to music. On the other hand, when it comes to arguments with my girlfriend, the genres I listened to were quite diverse, reflecting a range of emotional reactions. These results give us a glimpse into how my music choices vary based on different situations and moods.

6. Conclusion

In conclusion, this research study offers useful insights on how our experiences and moods affect the music we select to listen to. We may gain a better understanding of how individuals, such as me, relate to music at various periods of life by identifying these patterns. This study provides new avenues for investigating why people respond differently to different types of music and how they feel, which might lead to further research in the future.