

Pavan Kotian — Music Genre Popularity Analysis (2025)

1. Objective

This project explores how different music genres performed in terms of popularity, danceability, energy, and song count using a real dataset.

2. Methods Used

- GroupBy operations to compute averaged metrics
- Aggregations such as mean and count
- Sorting to identify rankings
- Visualizations including histograms, scatter plots, and bubble charts
- Comparative analysis across genres

3. Key Findings

- Funk consistently ranked highest in popularity despite having a low song count.
- Pop emerged as the strongest overall genre due to high popularity, strong song count, and solid danceability and energy.
- Alternative genre underperformed across most metrics.
- Higher song count did not automatically correlate with higher popularity.
- Genre 'strength' was best understood as the combined balance of multiple metrics.

4. Final Conclusion

Overall, the data suggests that popularity alone does not define the strength of a genre. Genres like Funk may be highly popular but lack the breadth of representation seen in Pop. Pop shows strong performance across all major metrics, making it the most balanced and resilient genre. In contrast, Alternative lags behind in both representation and listener engagement. A holistic evaluation across all metrics provides a clearer picture of what truly makes a genre successful.