# Spotify Analysis DashBoard

**Problem Statement:**

Our objective is to conduct a comprehensive analysis of Spotify songs, focusing on their release year and month, as well as identifying patterns in the distribution between major and minor keys. Currently, our understanding of the dynamics of song popularity in relation to their release dates is limited. By leveraging Power BI, we aim to create a robust and visually appealing dashboard that provides insights into which months and years witnessed a surge in song plays. Furthermore, we intend to categorize songs based on their key signatures, differentiating between major and minor, to discern any preferences or trends among listeners. This analysis will enable us to tailor our music recommendations, marketing strategies, and playlist curation more effectively. The Power BI solution will empower to filter and visualize this data dynamically, fostering a data-driven approach in our decision-making processes and enhancing our overall understanding of music consumption patterns on the Spotify platform.

**Resources:**
**DataSet:**Kaggle
https://www.kaggle.com/datasets/nelgiriyewithana/top-spotify-songs-2023
**Tool**:Power BI

**Concepts:**
Power BI Basics
Power BI DAX Queries
Power BI formats

**Solution:**

To address the Spotify songs analysis challenge, we propose implementing a Power BI solution that integrates with the Spotify API to retrieve and consolidate data on song releases, play counts, and key signatures. Utilizing Power BI's robust visualization capabilities, we will create dynamic dashboards that allow users to filter and explore song data by release year and month. Additionally, we will incorporate visualizations highlighting the distribution of songs in major and minor keys. By employing this solution will gain actionable insights into the temporal patterns of song popularity and user preferences, facilitating more informed decision-making in music recommendation, marketing, and playlist curation.

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