Spotify Exploratory Data Analysis Project

In this project, we are creating a data analysis project using Spotify Data Set obtained from Kaggle. Spotify is a proprietary Swedish audio streaming and media services provider founded on 23 April 2006 by Daniel Ek and Martin Lorentzon. It is one of the largest music streaming service providers, with over 489 million monthly active users, including 205 million paying subscribers, as of December 2022.

# Objective

We are conducting an exploratory data analysis on the data set of Spotify in order to gain useful insights about the organization. This data analysis is for research & exploratory purposes. The data is obtained through publicly available data sets on Kaggle.

# Questions for the Analysis

* Find the 10 least popular songs on Spotify
* Find the descriptive statistics for the data set
* Find the 10 most popular songs on Spotify
* Create a correlation map
* Create Regression Plots using Data
* Create Distribution Plot for songs released each year
* Create Distribution Plot for the duration of songs released each year
* Create a line plot for displaying the duration of songs each year
* Create a bar plot for the duration of songs for different genres
* Find the top 5 genres by popularity

# Features

* The project uses pandas, matplotlib, seaborn libraries for an extensive analysis of data.
* Various techniques in data cleansing, wrangling, processing are implemented.
* Uses various statistical methods like corelation analysis, regression, descriptive statistics.
* This project presents various graphs & plots to provide a better graphical representation.