SPOTIFY ANALYSIS

Domain Document

• spotify_track_uri

- **Description:** A unique identifier assigned to each track in Spotify's database.
- **Format:** "spotify:track:<base-62 string>" (e.g., spotify:track:3n3Ppam7vgaVa1iaRUc9Lp).
- **Purpose:** Helps link tracks to their metadata and allows for cross-referencing with Spotify's catalog.

• ts (Timestamp)

- **Description:** The exact time (in UTC) when the track stopped playing.
- **Format:** ISO 8601 format (e.g., 2024-02-07T14:30:45Z).
- **Purpose:** Used for analyzing listening patterns, session durations, and track end times.

platform

- **Description:** The device or platform used to stream the track.
- Possible Values:
 - o "desktop" (Windows/Mac app)
 - o "mobile" (iOS/Android app)
 - o "web" (Spotify Web Player)
 - o "smart speaker" (Amazon Echo, Google Home, etc.)
- **Purpose:** Helps understand where users are consuming music.

ms_played

- **Description:** The total number of milliseconds the track was played before stopping or skipping.
- **Format:** Integer value (e.g., 215000 for 3 minutes 35 seconds).
- **Purpose:** Useful for engagement analysis, identifying completed plays, and calculating revenue (as Spotify pays artists based on streaming duration).

• track name

- **Description:** The title of the song being played.
- Example: "Shape of You"
- **Purpose:** Helps in analyzing the most played tracks.

artist name

- **Description:** The name of the artist performing the song.
- Example: "Ed Sheeran"
- **Purpose:** Useful for ranking popular artists and identifying user preferences.

• album_name

- **Description:** The name of the album the track belongs to.
- Example: "÷ (Divide)"
- **Purpose:** Helps analyze album popularity and user listening trends.

• reason_start

- **Description:** The reason why the track started playing.
- Possible Values:
 - o "trackdone" (Previous track ended)
 - o "clickrow" (User manually selected the song)
 - o "backbtn" (User pressed back)
 - o "fwdbtn" (User pressed next)
 - o "playbtn" (User pressed play)
 - o "autoplay" (Spotify automatically selected the next track)
- **Purpose:** Helps understand user behavior and track engagement patterns.

• reason_end

- **Description:** The reason why the track stopped playing.
- Possible Values:
 - o "trackdone" (Track finished playing)
 - o "endplay" (User paused or stopped playback)
 - o "fwdbtn" (User skipped to the next track)
 - o "backbtn" (User went back to the previous track)
 - o "logout" (User logged out or session ended)
- **Purpose:** Helps identify why users stop listening to tracks, which is crucial for retention analysis.

• shuffle

- **Description:** Indicates whether shuffle mode was enabled during playback.
- Possible Values:
 - o TRUE (Shuffle mode was ON)
 - o False (Shuffle mode was OFF)
- **Purpose:** Helps analyze how often users use shuffle mode in their listening sessions.

skipped

- **Description:** Indicates whether the user skipped the song before it finished.
- Possible Values:
 - o TRUE (User skipped to the next track)
 - o FALSE (User did not skip)
- **Purpose:** Important for understanding user engagement, drop-off rates, and song popularity.