

## Spotify Track Data Reference

### 1. Track URI (**spotify\_track\_uri**)

- **Definition:** A distinct string that identifies each track in the Spotify ecosystem.
  - **Format Example:** **spotify:track:3n3Ppam7vgaVa1iaRUc9Lp** (base-62 encoded).
  - **Use Case:** Enables track-level referencing and linkage with Spotify's broader music catalog and metadata.
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### 2. Playback Timestamp (**ts**)

- **Definition:** The precise moment (in UTC) when a track stopped playing.
  - **Format:** ISO 8601 format, e.g., **2024-02-07T14:30:45Z**.
  - **Use Case:** Useful for tracking listening activity, play sessions, and time-based behavioral analysis.
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### 3. Listening Platform (**platform**)

- **Definition:** Indicates the type of device or interface used for playback.
  - **Common Values:**
    - **desktop** – Windows or macOS application
    - **mobile** – Android or iOS app
    - **web** – Web browser version
    - **smart\_speaker** – Devices like Alexa or Google Home
  - **Use Case:** Helps analyze user habits across different platforms.
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## 4. Milliseconds Played (**ms\_played**)

- **Definition:** Total duration (in milliseconds) a track was streamed before it was stopped or skipped.
  - **Example:** 215000 ms (equivalent to 3 min 35 sec).
  - **Use Case:** Critical for engagement metrics, full-play tracking, and revenue estimation based on stream duration.
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## 5. Track Title (**track\_name**)

- **Definition:** The name of the song being streamed.
  - **Example:** "Shape of You"
  - **Use Case:** Enables ranking and analysis of most popular tracks.
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## 6. Artist Name (**artist\_name**)

- **Definition:** Name of the artist or performer of the track.
  - **Example:** "Ed Sheeran"
  - **Use Case:** Helps assess artist popularity and user taste.
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## 7. Album Title (**album\_name**)

- **Definition:** The album from which the track originates.
  - **Example:** "÷ (Divide)"
  - **Use Case:** Useful for trend analysis based on album popularity.
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## 8. Playback Trigger (**reason\_start**)

- **Definition:** The trigger that caused the track to begin.
  - **Common Triggers:**
    - `trackdone` – Previous track completed
    - `clickrow` – Manually selected by user
    - `backbtn` / `fwdbtn` – User navigated backward/forward
    - `playbtn` – User hit play
    - `autoplay` – Automatically queued by Spotify
  - **Use Case:** Insight into user interaction and listening behavior.
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## 9. Playback End Reason (`reason_end`)

- **Definition:** Explains why playback was stopped.
  - **Typical Reasons:**
    - `trackdone` – Song ended naturally
    - `endplay` – Manually paused or stopped
    - `fwdbtn` / `backbtn` – Navigation to other track
    - `logout` – User logged out
  - **Use Case:** Vital for analyzing drop-off reasons and session dynamics.
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## 10. Shuffle Mode Status (`shuffle`)

- **Definition:** Indicates if shuffle mode was active during playback.
- **Values:**
  - `TRUE` – Shuffle was enabled
  - `FALSE` – Shuffle was off

- **Use Case:** Tracks user preference for randomization in listening.
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## 11. Track Skipped (**skipped**)

- **Definition:** Denotes whether the track was skipped before completion.
  - **Values:**
    - **TRUE** – Skipped
    - **FALSE** – Fully played
  - **Use Case:** Important for evaluating user interest and track performance.
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