Codebook

- **Popularity** *(Numerical)*: Popularity score (0–100) assigned by Spotify, reflecting recent streaming activity.
- **Explicit** *(Categorical, Binary)*: Indicates if the track contains explicit content (1 = explicit, 0 = clean).
- **Danceability** *(Numerical)*: Measures from 0 - 1 how suitable a track is for dancing, based on tempo, rhythm stability, beat strength, and other musical elements.
- **Energy** *(Numerical)*: Represents the intensity and activity of the track, with higher values indicating more energetic and fast-paced tracks (from 0 to 1)
- **Key** *(Categorical)*: Indicates the keys of the track ranging from C, C#, D, D#, E, F, F#, G,G#, A, A#, to B (for example, 0 = C, ..., 11 = B).
- **Loudness** *(Numerical)*: *Measures the* overall loudness of the track in decibels (dB), averaged across the entire track.
- **Mode** *(Categorical, Binary)*: Modality of the track, indicating whether it is in a major (1) or minor (0) key.
- **Speechiness** *(Numerical)*: From 0 to 1, detects the presence of spoken words in a track, with higher values indicating a more speech-like quality.
- **Acousticness** *(Numerical)*: From 0 to 1, the probability that the track is acoustic, with values closer to 1 indicating a higher likelihood of being acoustic.
- **Instrumentalness** *(Numerical)*: From 0 to 1, estimates the likelihood that the track is instrumental, with higher values indicating a lack of vocals.
- **Liveness** *(Numerical)*: From 0 to 1, detects the presence of a live audience in the recording, with higher values indicating a greater likelihood of a live performance.
- **Valence** *(Numerical)*: From 0 to 1, indicates the musical positiveness of a track, with higher values reflecting more positive or cheerful sounds.
- **Tempo** *(Numerical)*: The speed or pace of the track, measured in beats per minute (BPM).
- **Time.Signature** *(Numerical)*: Indicates the time signature, showing the number of beats per bar, typically 3 or 4.
- **Release.Year** *(Numerical)*: The year the track was released, providing a temporal context for the music.
- **genreSimplified** *(Categorical)*: A simplified or consolidated genre label for each track, where genres are categorized for clearer analysis (e.g., grouping "pop," "rock," "both pop and rock", and "other" as our genres).