

AI Music Metadata Schema v1.0

*Draft proposal for DSPs, distributors, and metadata management platforms
Developed within the "AI Transparency in Music" initiative (2025)*

1. Overview

This schema defines how AI involvement in a musical work should be described in machine-readable form.

Its goal is to provide transparency, enable fair attribution, and support legal compliance across the industry.

2. Root Structure (JSON Example)

```
{
  "track_id": "unique_track_identifier",
  "title": "Seven-Six",
  "artist": "Pasha Shtarskiy",
  "release_date": "2025-11-15",
  "ai_music_metadata": {
    "ai_involvement_level": "AI-Assisted",
    "ai_roles": {
      "composition": false,
      "lyrics": false,
      "arrangement": true,
      "instrumentation": true,
      "vocal_performance": true,
      "mixing_mastering": false
    },
    "human_contribution": {
      "lyrics": "Pasha Shtarskiy",
      "melody": "Pasha Shtarskiy",
      "arrangement": "Pasha Shtarskiy",
      "creative_direction": "Pasha Shtarskiy"
    },
    "ai_tools_used": [
      {
        "name": "Sunō",
        "role": "vocal synthesis",
        "version": "2.3.1"
      },
      {
        "name": "Ableton Live",
        "role": "arrangement assistance (AI tools)",
        "version": "12.1"
      }
    ],
    "voice_model": {
      "used": true,
      "source_type": "artist_voice_clone",
      "consent_status": "granted_by_artist"
    },
    "generation_type": "partial",
```

```
    "estimated_ai_content_ratio": 0.25,
    "verification": {
      "creator_confirmation": true,
      "timestamp": "2025-11-10T22:14:00Z"
    }
  }
}
```




3. XML Variant (for legacy systems)

```
<TrackMetadata>
  <Title>Seven-Six</Title>
  <Artist>Pasha Shtarskiy</Artist>
  <AI_Music_Metadata>
    <AI_Involvement_Level>AI-Assisted</AI_Involvement_Level>
    <AI_Tools_Used>
      <Tool name="Sunō" role="vocal synthesis" />
      <Tool name="Ableton Live" role="arrangement assistance" />
    </AI_Tools_Used>
    <Voice_Model used="true" source_type="artist_voice_clone" />
    <Estimated_AI_Content_Ratio>0.25</Estimated_AI_Content_Ratio>
  </AI_Music_Metadata>
</TrackMetadata>
```

4. Field Reference Table

Field	Type	Required	Description
ai_involvement_level	Enum	Yes	Human-Created, AI-Assisted, or AI-Generated
ai_roles	Object	Yes	Which elements AI participated in
ai_tools_used	Array	Optional	List of tools or models used
voice_model	Object	Optional	Specifies cloned voice source and consent
generation_type	String	Yes	"partial" or "full" generation
estimated_ai_content_ratio	Float	Optional	0.0–1.0 scale for AI contribution
verification	Object	Yes	Includes creator_confirmation and timestamp

5. Metadata Iconography Proposal

Symbol	Label	Meaning
	HC	Human-Created
	AA	AI-Assisted
	AG	AI-Generated

These icons can appear on DSP track pages, giving users instant clarity without technical clutter.

6. Integration Roadmap

1. **DSP Support Phase (2026):** add optional `ai_music_metadata` field to upload APIs.
 2. **Distributor UI Phase:** implement toggle selection (“Was AI used?” → dropdown with 3 tiers).
 3. **Verification Layer:** connect to digital certificates confirming authorship and model consent.
 4. **Public Display:** show the chosen icon (🎧 / ⚙️ / ☐) near track credits.
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7. Benefits

- Simplifies compliance with copyright law and ethical guidelines.
 - Builds listener trust through transparency.
 - Gives fair credit to human creators.
 - Enables analytics on AI adoption in music creation.
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8. License

This schema is released under **Creative Commons BY 4.0** — open for adoption and modification by distributors, labels, and independent creators.

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Co-created with GPT-5 under the AI Transparency in Music initiative.