

Capstone 2 Project

AUDIOAURA

Visualizing Your Music Taste Through Data



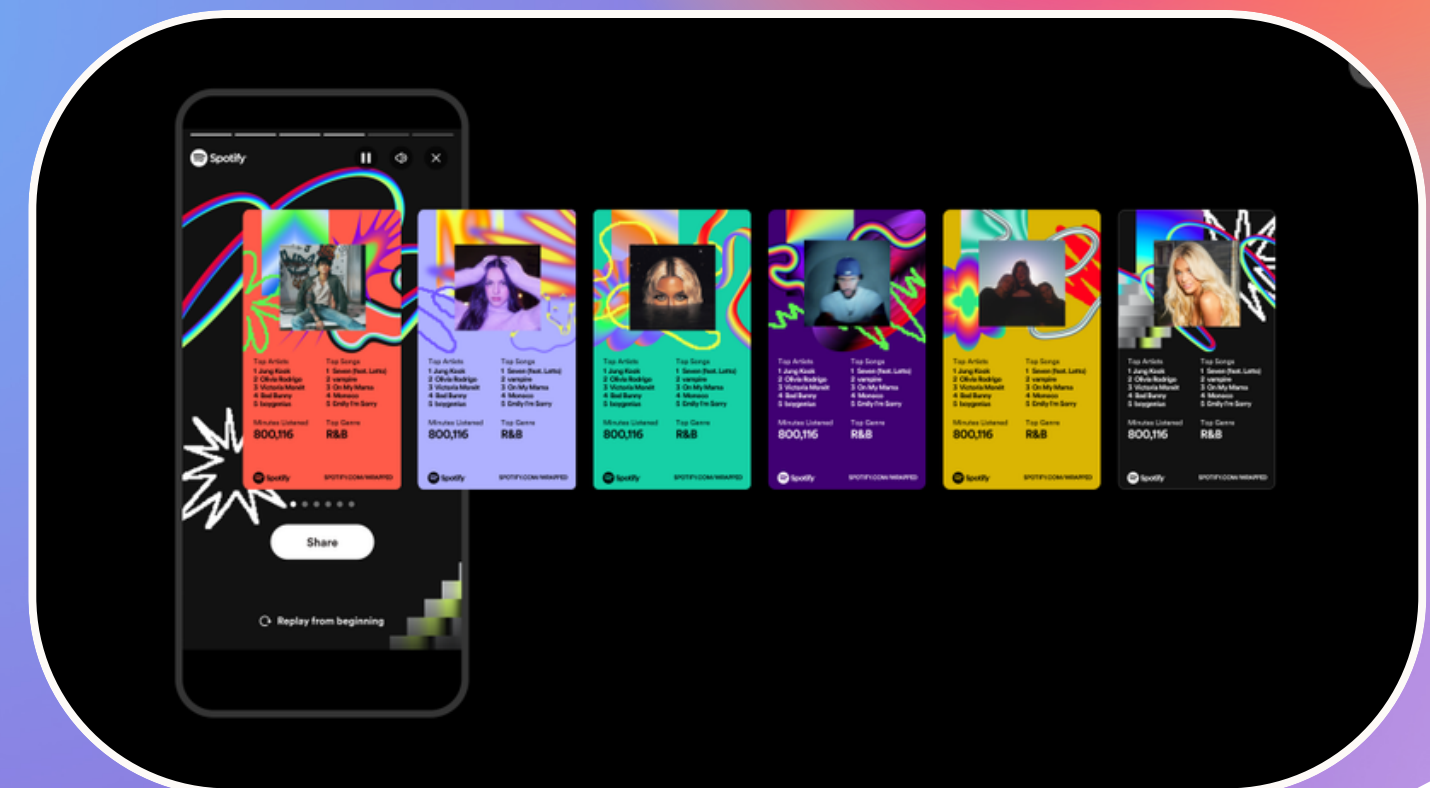
Problem

Understanding Your Music Data and Identity

Music platforms such as Spotify and Apple music help users understand their listening data by providing them their top artists, songs, and audio features. While this data is presented in a visually engaging way, they are limited once a year and do not allow continuous or interactive exploration.

While there are tools such as Obscurify, they primarily focus on statistics instead of creating a cohesive and individualized visual identity.

For this reason, users don't have much tools to connect with their music taste over time and lack a consistent and expressive way to interpret their listening behavior.



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Motivation

Making Music Data More Personal and Continuous



Visualize music taste beyond raw data

Provide insights beyond yearly summaries

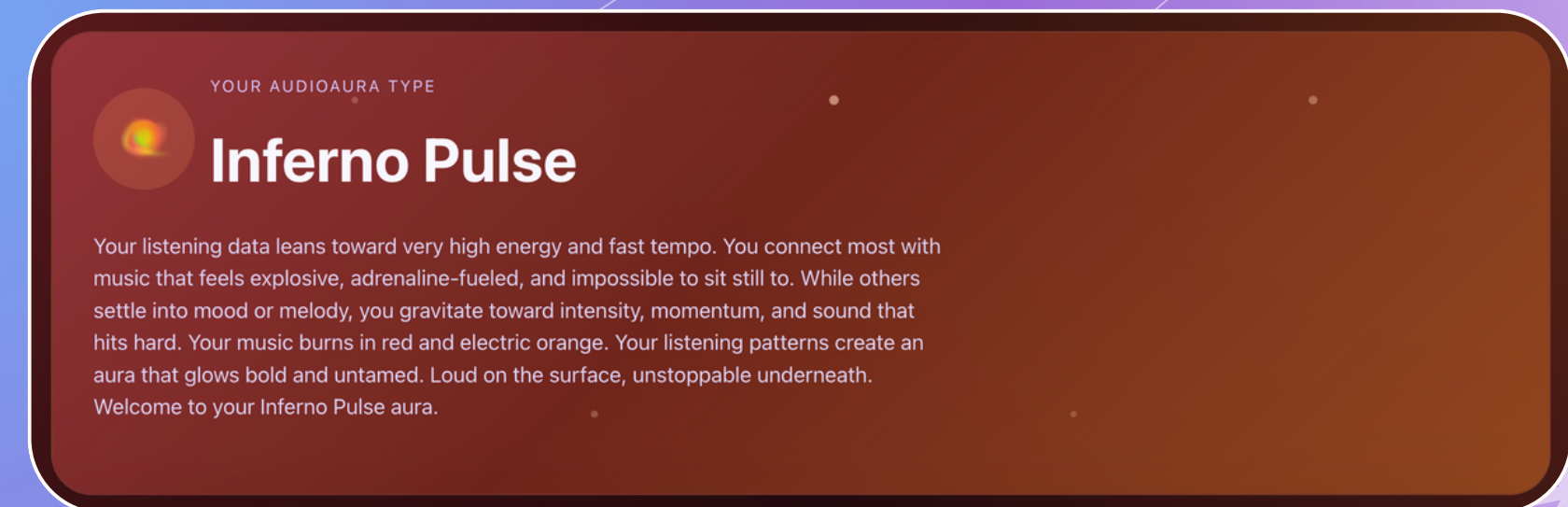
Turn audio features into clear meaning

Create a more personalized experience

Solution/Overview

AudioAura takes Spotify listening data and turns it into a personalized visual "aura" that reflects a users audio data. Audio features such as energy, valence, and acousticness is used to analyze audio features and generate a unique identity that can be shared with users and easy to understand.

- ✦ ***Connects to Spotify to retrieve user data***
- ✦ ***Analyzes audio features (energy, mood, etc.)***
- ✦ ***Generates a personalized aura profile***
- ✦ ***Provides clear visual and textual insights***
- ✦ ***Updates continuously (not just yearly)***



Example: AudioAura Type card

Key Features

Core functionalities of the AudioAura system

- **Spotify Integration (OAuth login)**
- **Real-time Listening Data Retrieval**
- **Audio Feature Analysis (energy, valence, etc.)**
- **Aura Generation & Classification**
- **Interactive Data Visualizations**
- **Genre & Artist Breakdown Feature**
- **User-Friendly Report Interface**

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Thank You!

Lauren Stone, Daniel Gonzalez Lemus, Daniel Bencomo,
Juan de Dios Nunez, Nicholas Brotherhood

