

## DS 4002: Decode the Pulse of American Cities Through Song

Welcome to your mission.

You've just been hired as a data analyst for **PulseFM**, a forward-thinking national radio network with a bold vision: understand America not just by polling opinions, but by decoding what people are *really listening to*. You're placed on a special team with a unique goal analyze the most popular songs across major U.S. cities to uncover what lyrics say about cultural identity, regional taste, and shared experiences.

It's February 2025. The top 25 songs from cities like **New York, Los Angeles, Miami, Chicago, Atlanta, D.C., and Houston** are changing fast and the producers want answers.

They've scraped song charts from Apple Music and handed you lyrics pulled from the Genius API. Your job? **Clean it. Analyze it. Extract meaning.** And fast tthe next podcast season is being written in real time.

### What You're Exploring

- **Culture and Geography:** Do coastal cities share lyrical themes? What separates the South's music from the Midwest?
- **Language Patterns:** Are there emotional, political, or social undercurrents hiding in the words people sing along to every day?
- **Artist and Genre Dominance:** Who's topping the charts? What genres are breaking through in each city?

This is more than a technical task. You're telling stories through data. You're building a bridge between **qualitative human insight** and **quantitative lyric analysis**.

### Your Mission Deliverable

You'll produce a narrative-driven analysis that surfaces **what words define each city's sound**. Your insights could fuel:

- A **podcast segment** on regional lyric trends
- A **visual dashboard** for music producers
- Or a **report for marketing execs** trying to tap into regional culture

Let's dive in: <https://github.com/arooshasolomon/DS-4002/tree/main/CS3>