

## DS 4002: American Cities Through Song

### Welcome to your mission.

You've just been hired as a data analyst for PulseFM, a 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 to analyze the most popular songs across major U.S. cities to uncover what lyrics say about cultural identity, regional taste, and shared experiences. This is a powerful tool to draw comparisons and gain valuable insight on the cultural and ethnic ties to a city.

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 the next podcast season is being written and people are curious to know. What is America listening to and what commonalities and differences do we see across different cities?

### Your aim

- **Culture and Geography:** Do cities share lyrical themes? Does city demographic influence the top lyrics in a city?
- **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?

### Your Mission Deliverable

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

- A podcast segment on regional lyric trends informing a general audience about musical trends
- A visual dashboard for music producers to see potential trends
- 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>