# Phase 1 Project Report:

## Introduction:

In this report, I will be operating as the sole group member, drawing upon my extensive experience as a self-trained data scientist with over 8 years of analytics experience. My programming proficiency includes Python, R, SQL, and various other analytic tools, making me well-equipped to explore the vibrant world of live music events in San Antonio, my home city. While my professional background predominantly lies in healthcare analytics, I'm eager to apply my skillset to a project that revolves around one of my other passions - music!

## Analytic Plan:

My objective for this project is to harness the Jambase API, a platform designed by music enthusiasts to curate a comprehensive database of live music events worldwide. By utilizing this API, I intend to create a structured dataset that focuses on live music events. For the sake of conciseness, I plan to limit the dataset to only concerts in my home city of San Antonio.

This dataset holds potential for diverse research inquiries into the local music scene or for development purposes such as music-related apps. Key analyses that this information could be used for include determining the most popular music genres within the city, identifying venues that frequently host artists, and exploring the possibilities of developing a altert system for music enthusiasts using Spotify or another streaming service data integration. This notification system could alert users when their favorite artists are performing in their area, offering a more personalized live music experience.

## About the Data Source:

Jambase is a music-centric platform that compiles show listings for an impressive array of 65,000 artists across 50 different genres, performing in 75,000 venues worldwide.[[1]](#footnote-1) The platform's API provides access to thousands of live concerts, festivals, music streams, artists, and venues across the globe. The data is a collaborative effort, sourced from venues, concert promoters, festivals, record labels, and ticket/entertainment companies, creating a rich repository of information on music-related events.

The data provided by Jambase is in JSON format, which offers a structured and flexible means to work with the information. JSON data can be easily parsed and manipulated to extract valuable insights.

Jambase offers free access to their API, with a high limit of 3600 API calls per hour. This accessibility ensures that any dataset created from this API pull can be made available to the public. Given the dynamic nature of the live music scene, with concerts and events constantly being updated, I plan to schedule my API pull to run daily, guaranteeing the most current and up-to-date information for analysis.

## Limitations of the Data:

Despite the wealth of information provided by Jambase, there are several limitations that necessitate attention. Firstly, the accuracy of the concert data is heavily reliant on the data provided by event organizers and artists. Although Jambase aggregates data from major event organizers, it does not encompass all artists or event organizers, leaving room for potential data gaps.

Secondly, the geographic coverage of the API remains somewhat ambiguous. The availability of concert listings may not be uniform on a global scale, with certain regions having more extensive coverage compared to others due to regional vendor preferences.

Lastly, the API primarily focuses on upcoming concerts, which limits its usefulness for retrospective analysis of past events. As a result, it may not be the ideal source for later analyses that show the evolution of an area’s music scene over time.

To enhance the dataset and address these limitations, one could try to implement a data verification system, potentially involving crowdsourcing or integrating data from multiple sources, such as Spotify or other similar services to help improve data accuracy and completeness. Additionally, historical data could be included by leveraging other sources, allowing users to explore the music scene's progression over time.

In conclusion, this project presents a promising opportunity to explore and celebrate the vibrant live music scene in San Antonio.

Example API Pull Result:  
Appendix:

{

"success": true,

"event": {

"name": "string",

"identifier": "jambase:194164",

"url": "http://example.com",

"image": "http://example.com",

"sameAs": [

{

"@type": "URL",

"identifier": "officialSite",

"url": "http://example.com"

}

],

"datePublished": "2022-12-14T15:35:48Z",

"dateModified": "2022-12-14T03:41:20Z",

"eventStatus": "scheduled",

"startDate": "string",

"endDate": "string",

"previousStartDate": "string",

"doorTime": "string",

"location": {

"name": "string",

"identifier": "jambase:194164",

"url": "http://example.com",

"image": "http://example.com",

"sameAs": [

{

"@type": "URL",

"identifier": "officialSite",

"url": "http://example.com"

}

],

"datePublished": "2022-12-14T15:35:48Z",

"dateModified": "2022-12-14T03:41:20Z",

"maximumAttendeeCapacity": 20789,

"address": {

"@type": "PostalAddress",

"streetAddress": "4 Pennsylvania Plaza",

"addressLocality": "New York",

"postalCode": "10001",

"addressRegion": {

"@type": "State",

"identifier": "US-AZ",

"name": "Arizona",

"alternateName": "AZ",

"country": {

"@type": "Country",

"identifier": "US",

"name": "United States",

"alternateName": "USA",

"x-numUpcomingEvents": 12

},

"x-numUpcomingEvents": 12

},

"addressCountry": {

"@type": "Country",

"identifier": "US",

"name": "United States",

"alternateName": "USA",

"x-numUpcomingEvents": 12

},

"x-streetAddress2": "Second Floor",

"x-timezone": "America/New\_York",

"x-jamBaseMetroId": 1,

"x-jamBaseCityId": 4223296

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"geo": {

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"latitude": 40.7505,

"longitude": -73.9934

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"identifier": "jambase:194164",

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"startDate": "string",

"endDate": "string",

"previousStartDate": "string",

"doorTime": "string",

"location": {

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"identifier": "jambase:194164",

"url": "http://example.com",

"image": "http://example.com",

"sameAs": [

{

"@type": "URL",

"identifier": "officialSite",

"url": "http://example.com"

}

],

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"dateModified": "2022-12-14T03:41:20Z",

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"address": {},

"geo": {

"@type": "GeoCoordinates",

"latitude": 40.7505,

"longitude": -73.9934

},

"events": [],

"x-isPermanentlyClosed": false,

"x-numUpcomingEvents": 12,

"x-externalIdentifiers": [

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"source": "ticketmaster",

"identifier": "e3asdf3ad"

}

]

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"name": "string",

"identifier": "jambase:194164",

"url": "http://example.com",

"image": "http://example.com",

"sameAs": [

{

"@type": "URL",

"identifier": "officialSite",

"url": "http://example.com"

}

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"dateModified": "2022-12-14T03:41:20Z",

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"priceSpecification": {

"@type": "PriceSpecification",

"minPrice": 15.99,

"maxPrice": 35.99,

"price": 35.99,

"priceCurrency": "USD"

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"seller": {

"@type": "Organization",

"identifier": "jambase:194164",

"disambiguatingDescription": "eventTicketVendorPrimary",

"name": "string",

"url": "http://example.com",

"image": "http://example.com",

"sameAs": [

{

"@type": "URL",

"identifier": "officialSite",

"url": "http://example.com"

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"validFrom": "2022-12-07T12:42:00"

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"performer": [

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"identifier": "jambase:194164",

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"sameAs": [

{

"@type": "URL",

"identifier": "officialSite",

"url": "http://example.com"

}

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"dateModified": "2022-12-14T03:41:20Z",

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"member": [

{

"type": "MusicGroup",

"name": "string",

"identifier": "jambase:12345",

"image": "http://example.com",

"url": "http://example.com"

}

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"memberOf": [

{

"@type": "MusicGroup",

"name": "string",

"identifier": "jambase:98765",

"image": "http://example.com",

"url": "http://example.com"

}

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"foundingLocation": {

"@type": "Place",

"name": "Chicago, IL"

},

"foundingDate": "1983",

"genre": [

"bluegrass"

],

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{

"name": "string",

"identifier": "jambase:194164",

"url": "http://example.com",

"image": "http://example.com",

"sameAs": [

{

"@type": "URL",

"identifier": "officialSite",

"url": "http://example.com"

}

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"datePublished": "2022-12-14T15:35:48Z",

"dateModified": "2022-12-14T03:41:20Z",

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"startDate": "string",

"endDate": "string",

"previousStartDate": "string",

"doorTime": "string",

"location": {

"name": "string",

"identifier": "jambase:194164",

"url": "http://example.com",

"image": "http://example.com",

"sameAs": [

{

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"identifier": "officialSite",

"url": "http://example.com"

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],

"datePublished": "2022-12-14T15:35:48Z",

"dateModified": "2022-12-14T03:41:20Z",

"maximumAttendeeCapacity": 20789,

"address": {},

"geo": {

"@type": "GeoCoordinates",

"latitude": 40.7505,

"longitude": -73.9934

},

"events": [],

"x-isPermanentlyClosed": false,

"x-numUpcomingEvents": 12,

"x-externalIdentifiers": [

{

"source": "ticketmaster",

"identifier": "e3asdf3ad"

}

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"offers": [],

"performer": [],

"eventAttendanceMode": "offline",

"isAccessibleForFree": false,

"x-promoImage": "http://example.com",

"type": "Concert",

"x-externalIdentifiers": [

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"source": "ticketmaster",

"identifier": "e3asdf3ad"

}

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"x-customTitle": "string",

"x-subtitle": "string",

"x-headlinerInSupport": false,

"x-streamIds": [

"jambase:12345"

]

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"x-bandOrMusician": "band",

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"x-externalIdentifiers": [

{

"source": "ticketmaster",

"identifier": "e3asdf3ad"

}

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"x-performanceDate": "string",

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"x-isHeadliner": false,

"x-dateIsConfirmed": false

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"eventAttendanceMode": "offline",

"isAccessibleForFree": false,

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"type": "Concert",

"x-externalIdentifiers": [

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"source": "ticketmaster",

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}

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"x-customTitle": "string",

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"x-headlinerInSupport": false,

"x-streamIds": [

"jambase:12345"

]

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"x-isPermanentlyClosed": false,

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"x-externalIdentifiers": [

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"source": "ticketmaster",

"identifier": "e3asdf3ad"

}

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"eventAttendanceMode": "offline",

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"source": "ticketmaster",

"identifier": "e3asdf3ad"

}

],

"x-customTitle": "string",

"x-subtitle": "string",

"x-headlinerInSupport": false,

"x-streamIds": [

"jambase:12345"

]

}

}

1. Jambase, “About”, <https://www.jambase.com/about>, Access 10/27/2023 [↑](#footnote-ref-1)