# MUSIC SENTIMENT ANALYSIS TOOL

# PROJECT OVERVIEW

A Music Industry Analytics App provides critical insights and data-driven tools for artists, record labels, and industry professionals to track music performance across various platforms. This app compiles streaming data, social media metrics, and sales figures to offer a comprehensive overview of music trends, artist popularity, and revenue generation. It assists in making informed decisions about marketing strategies, tour planning, and artist development based on real-time analytics and historical data.

# TECHNOLOGY DETAILS
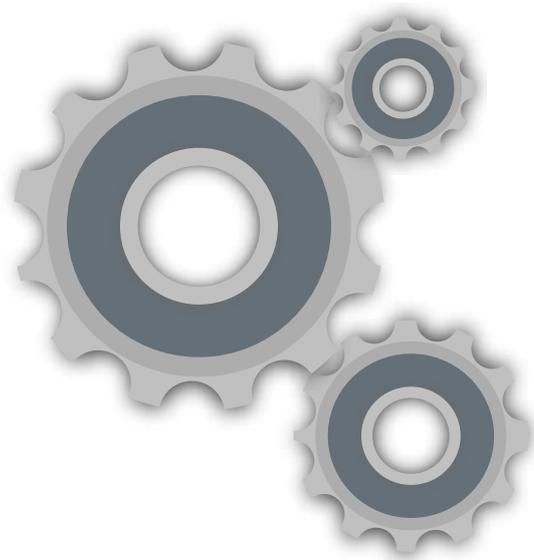
- Node.js
- SQL
- React.JS
- RxJS
- Python
- Scikit-Learn
- Tensorflow
- NLP
- Scrapy
- Selenium
- AWS RDS
- GCP VM

# PROJECT FEATURE VIEW

The solution offers two main functionalities: **analytics** and **data collection**.

Let's delve into the **analytics** section first. Here, users can meticulously analyze the extensive data accumulated over time. In the table view, data is presented in its raw format, allowing users to adjust parameters as needed. The grid view showcases images representing various artists, with additional artist details accessible through info panels. Both views are equipped with filters to refine data parameters to suit specific requirements.

To facilitate **data collection** from diverse platforms, we've developed a cloud automation crawler. This crawler scours over 100 websites, gathering artist details and storing them in AWS RDS for seamless access.

Our automation comprises two services: the **artist record label** crawler and the **social media crawler**. The social media crawler, hosted on GCP, updates social media details daily, ensuring real-time insights. Meanwhile, the artist record label crawler, also on GCP, runs monthly to capture new additions to record labels, enhancing data comprehensiveness. Based on data we are performing sentiment analysis of song's feedback and creating a regression model to detect songs growth over the period based on trending genre. The sentiment analysis we are providing solutions for to detect what type of music needs to be produced in the coming years.

# PROJECT SCREENSHOTS

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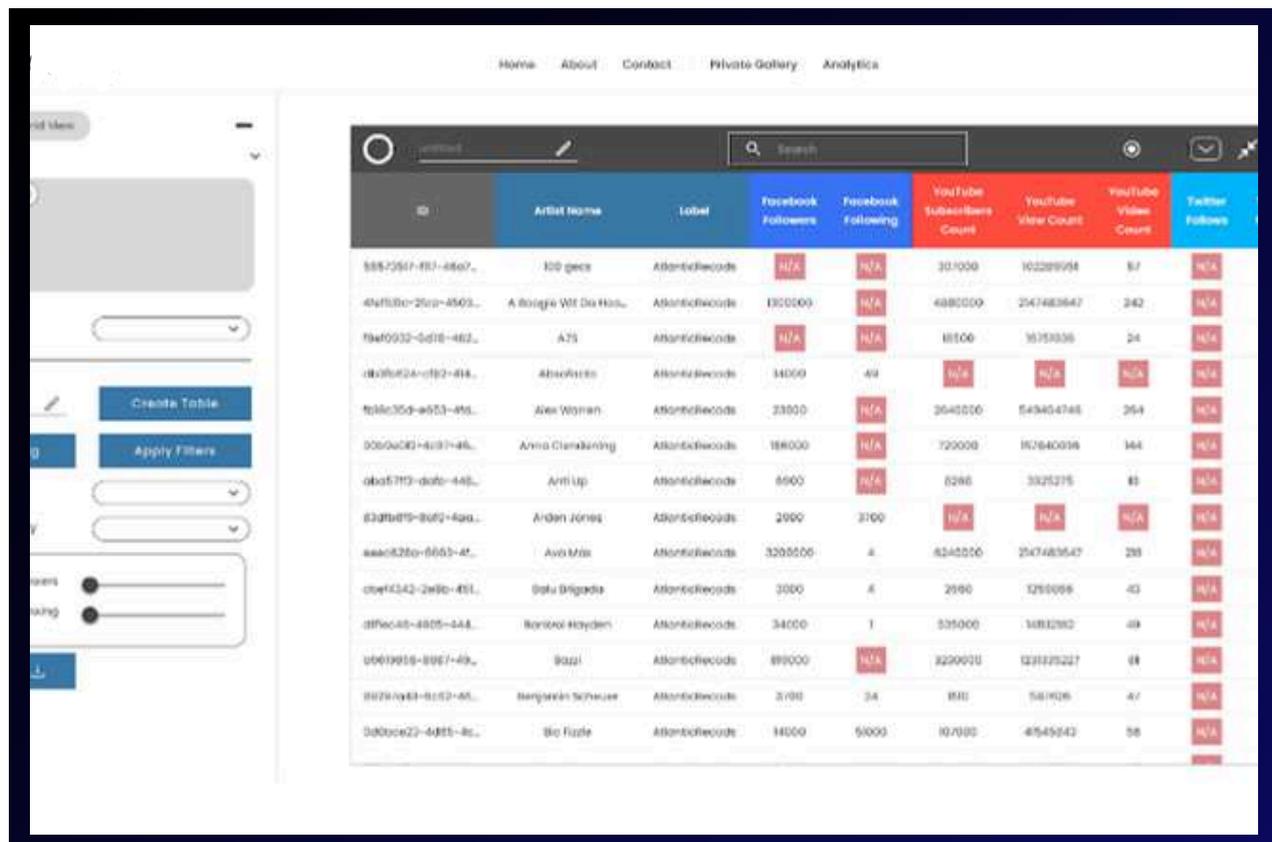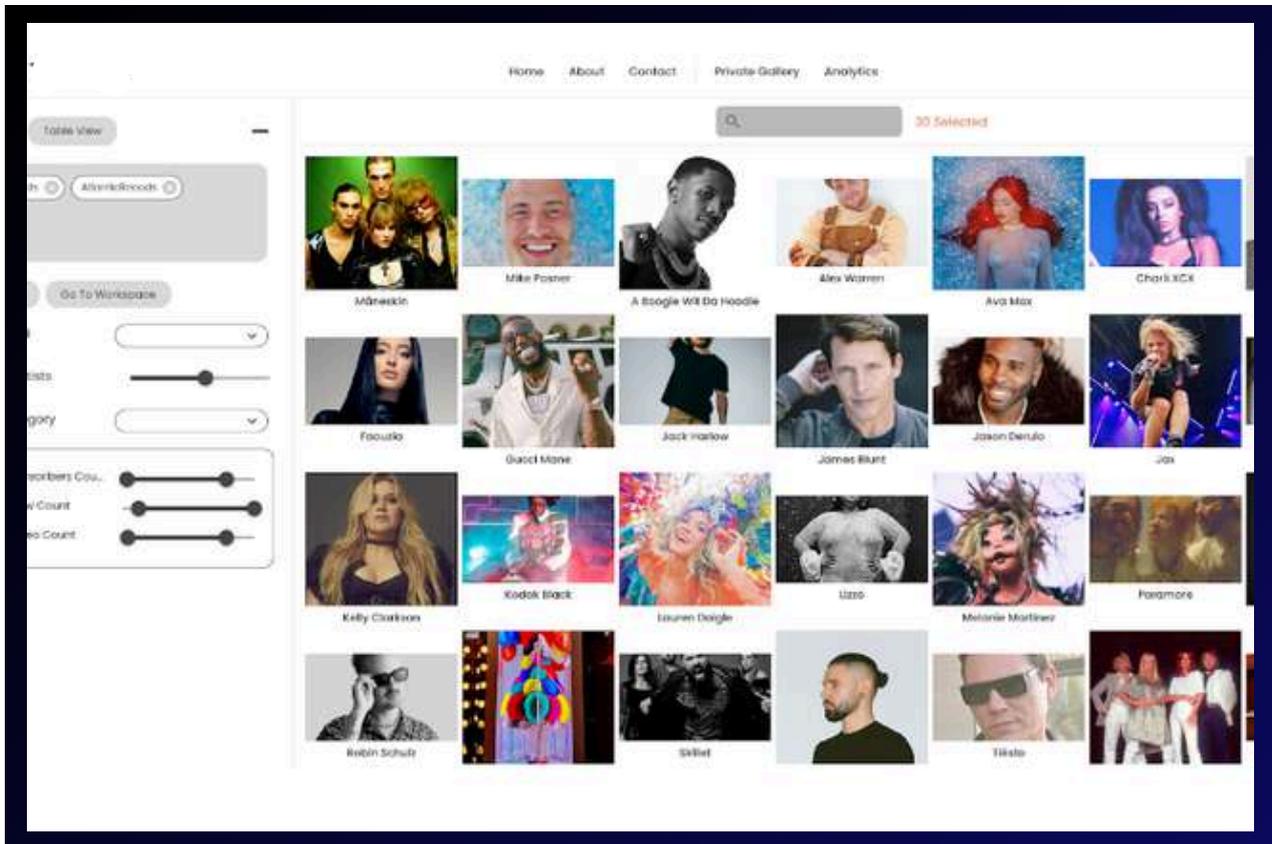
# THANK YOU

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