MUSICO

REPRESENTED BY

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ABOUT TECHNOLOGY

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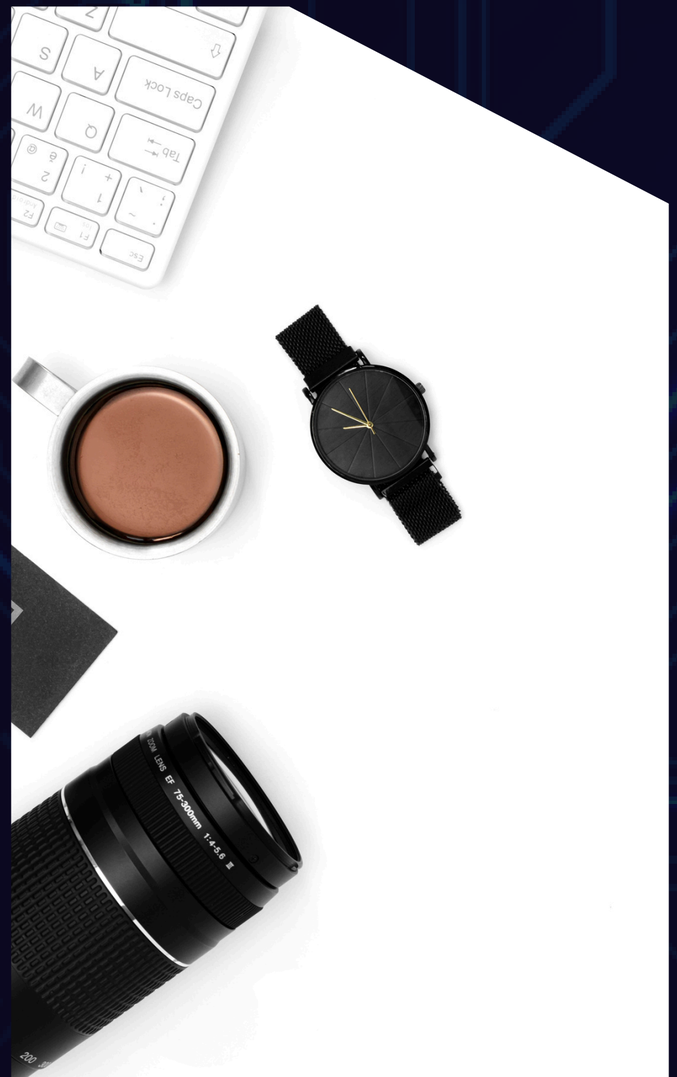
In today's digital age, music streaming platforms like Saavn and Spotify have revolutionized how we discover and enjoy music. Leveraging the power of machine learning, Python programming, and sophisticated frameworks, our team has crafted an extraordinary solution.

OUR PROJECT

Our project is a groundbreaking application designed to seamlessly recommend and recognize songs from leading online platforms. Utilizing advanced algorithms and data analysis techniques, we've developed a system that intuitively understands your musical preferences.

MAJOR LIBRARIES USED



1. Tkinter: this library in python provides a standard GUI toolkit which allows us to create desktop applications along with interactive graphical elements.
2. Numpy: this is a library in python which allows us to work on large arrays and multi- dimensional matrices and mathematical functions.
3. Threading: this library offers concurrent execution of several tasks, it creates and manages several threads with the code which allows parallelism and asynchronous behavior
4. OS: The OS library in python provides us with interacting functions with the operating system, it helps in managing processes and navigating file directories.

ABOUT ACR CLOUD

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The technology platform known as ACR Cloud, or Automatic Information Recognition Cloud, uses a variety of methods, including audio fingerprinting, to recognize audio and video information in real time. In contrast, the process of creating a digital fingerprint or signature by extracting distinct features from an audio signal is known as audio fingerprinting.

By comparing this fingerprint to a database of known fingerprints, the audio content can subsequently be identified. For content identification in the context of the ACR Cloud, audio fingerprinting is essential. The algorithms of ACR Cloud examine an audio signal after it is recorded in order to produce a fingerprint. In a matter of seconds, this fingerprint is then compared to an extensive database of previously collected fingerprints to identify the precise audio file—such as a song or TV show—that is being played.

FUNCTIONS OUR MUSICO CAN PERFORM

- **RECOGNITION: This feature allows users to to identify any song based on a part of it.**
- **SKIP/ FORWARD- PREVIOUS: This feature allows the user to skip to the next song in the queue, replay the present song, or play the previous song.**
- **PLAY-PAUSE: This feature allows users to play or pause the existing song.**
- **ADD - REMOVE Library : This feature allows the user to add any song or remove any song from the library**
- **VOLUME CONTROL : The default value has been set to 70, which can be any song from the library. changed using this feature as per the preference of the user.**
- **MUTE : This allows the user to completely block any volume or mute the song.**

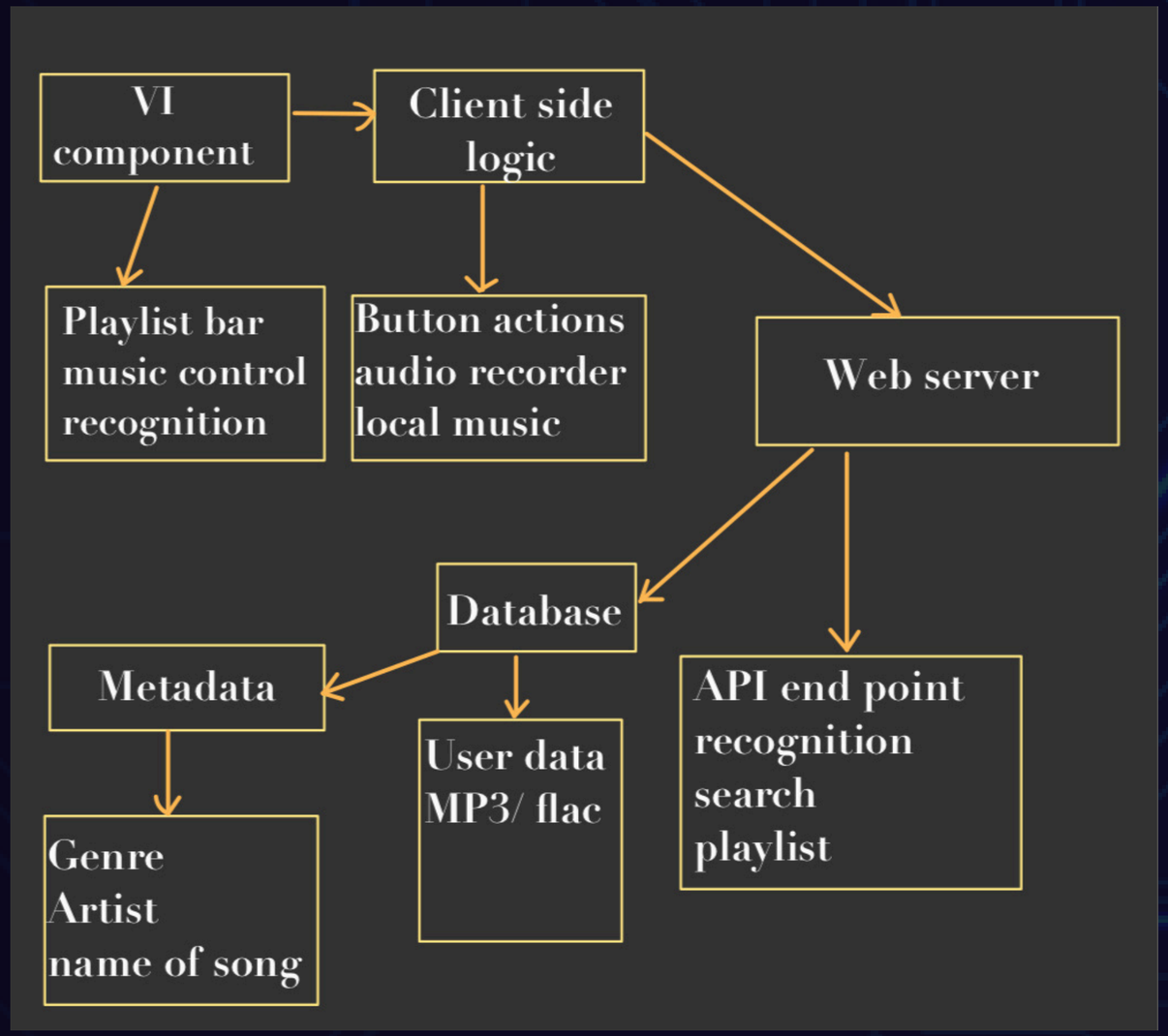
UNIQUENESS :

Song Recognition

With cutting-edge technology, our app identifies songs playing around you, allowing for instant discovery and engagement.

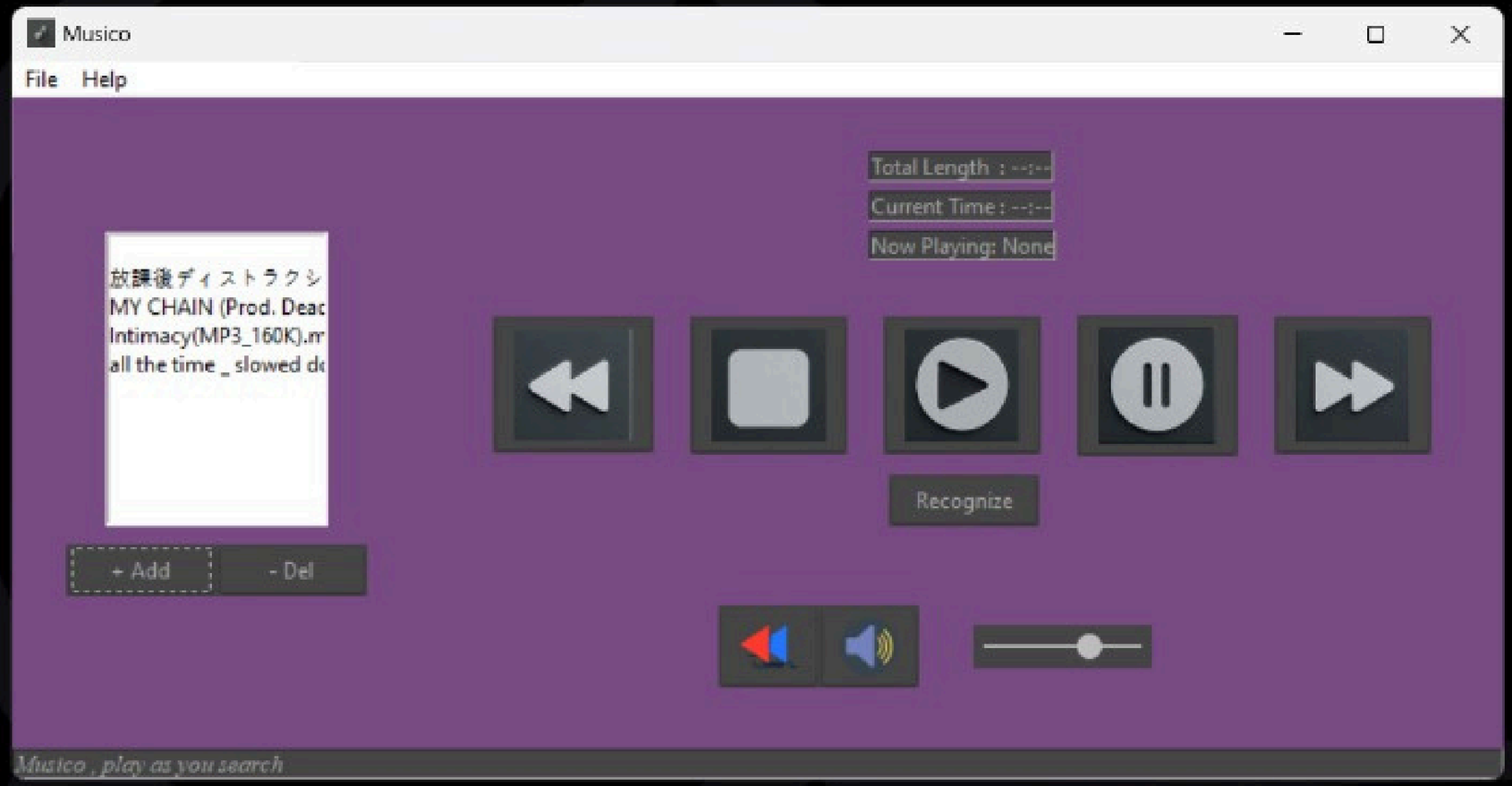
Seamless Integration

Whether you're on Saavn or Spotify, our app seamlessly interacts with these platforms to enhance your music exploration experience.



BLOCK DIAGRAM

SCREENSHOT


Musico
File Help
Total Length : --:--
Current Time : --:--
Now Playing: None
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Recognize
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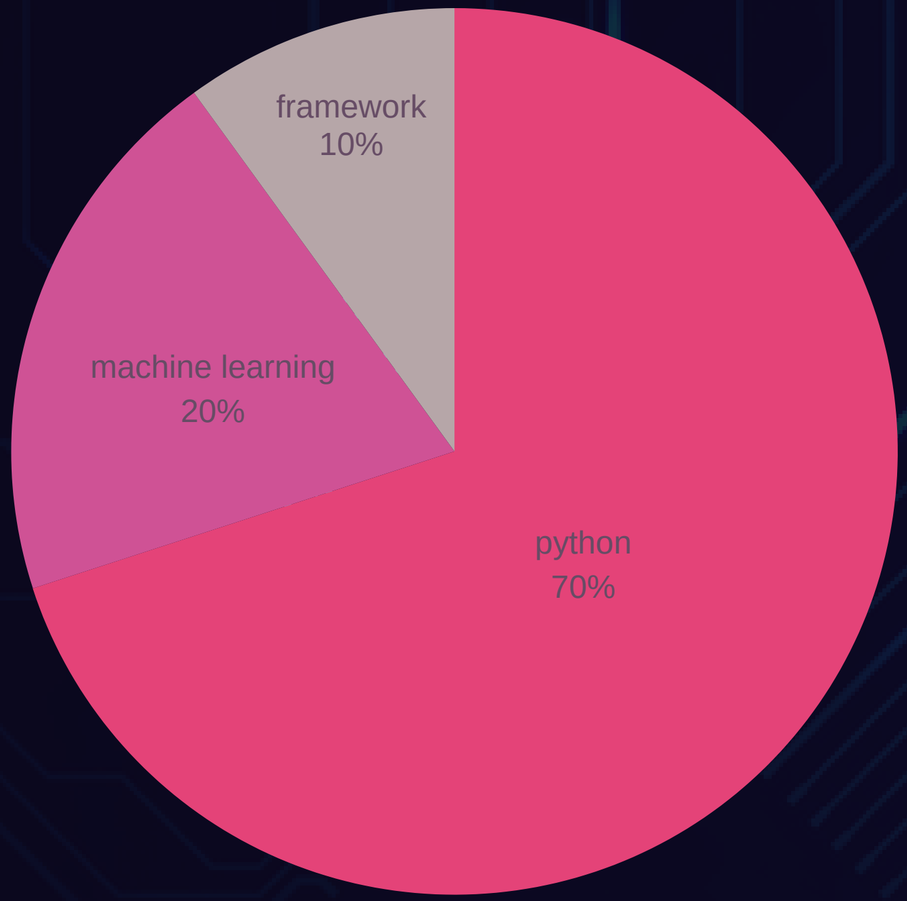
Musico , play as you search



Machine Learning:

We harness the power of machine learning algorithms to analyze user preferences and provide tailored recommendations.

Python:

The backbone of our application, Python offers versatility, efficiency, and a vast array of libraries essential for developing complex systems.

Frameworks:

Leveraging robust frameworks, we ensure scalability, performance, and maintainability of our solution.

CONCLUSION :

MUSICO is a significant development in the field of music enjoyment and administration. Users are able to enjoy a customizable library, smooth playback controls, accurate recognition, and a music experience that suits their tastes thanks to an intuitive interface and a wide range of functions. Advanced features like mute and volume control are integrated to provide users with additional convenience and flexibility, enabling them to easily lose themselves in their favorite music.The creation and execution of this system highlight how technology may improve day-to-day experiences. Using state-of-the-art algorithms and approaches, together with the power of libraries like Pygame.mixer and tkinter, we have developed a platform that enhances music listening with personalized recommendations and simple controls, all while making it easier to use.

THANK YOU