

Podcast Summarizer App

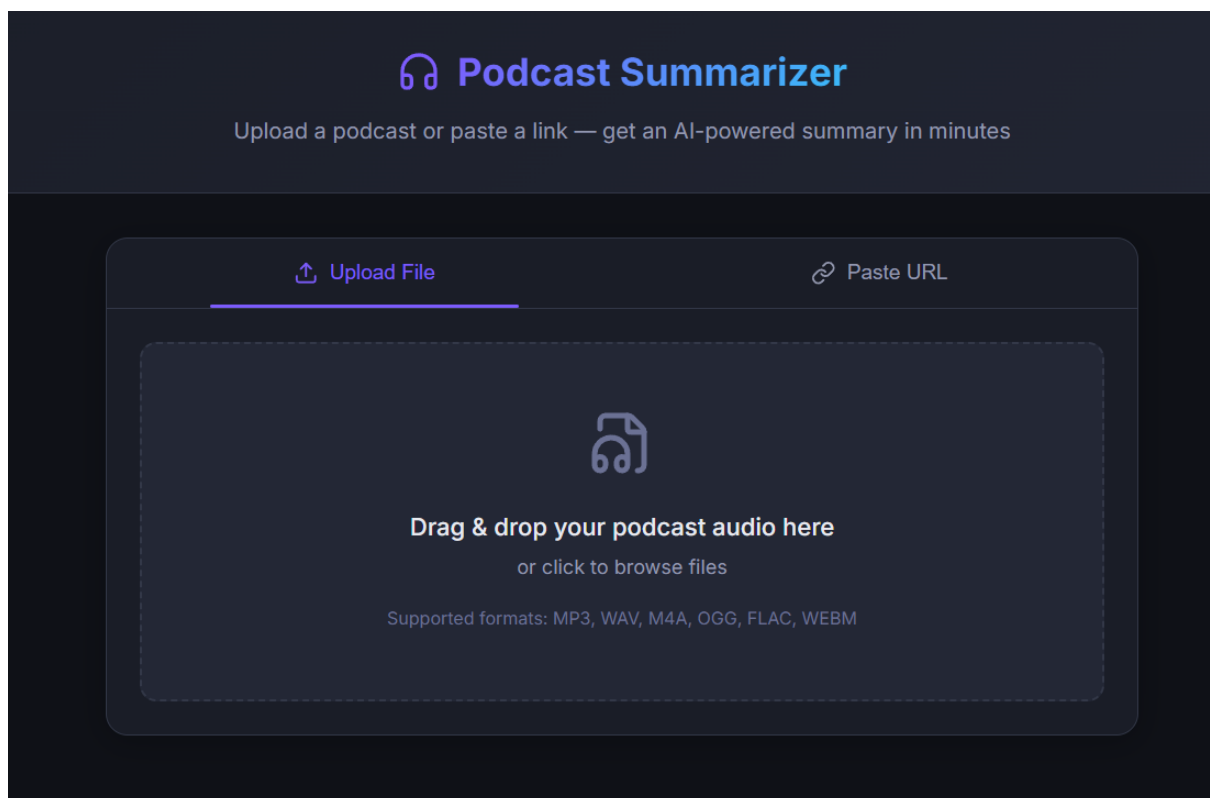
The Podcast Summarizer app is used to extract the summary, full transcript, key points and highlights from audio uploads (MP3, WAV, M4A, OGG, FLAC, WEBM) or YouTube/Spotify podcast URLs.

The application has been developed using React, Whisper and Fast API.

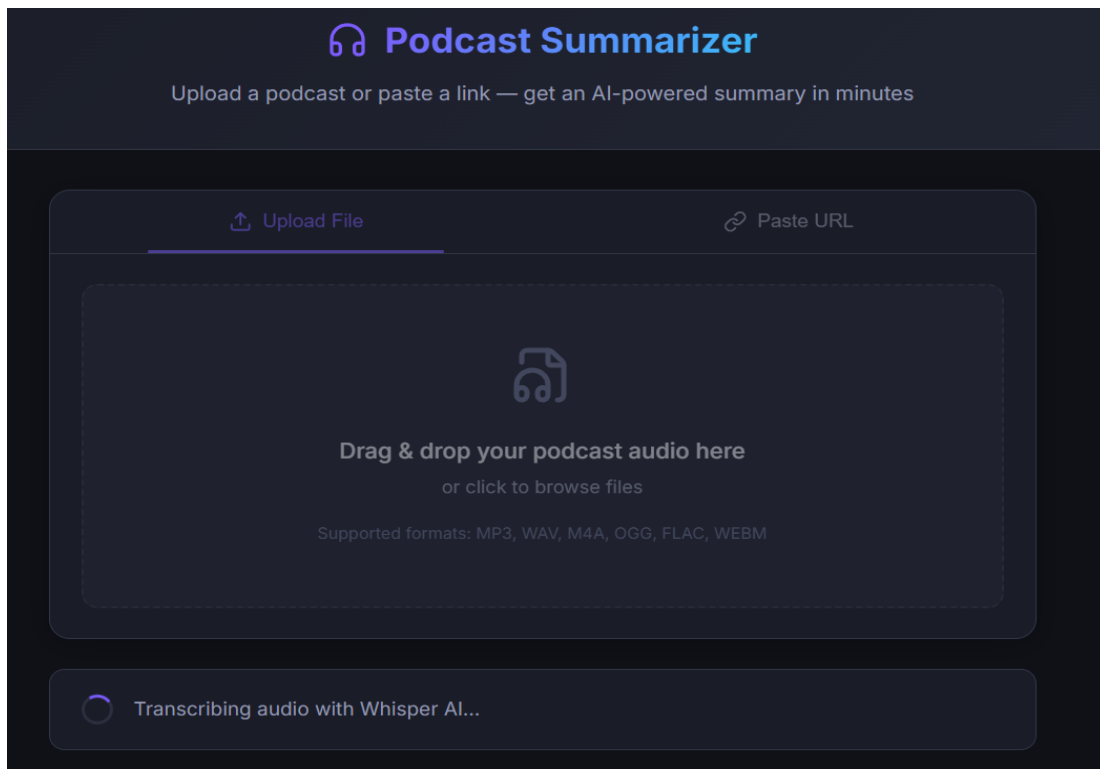
This is the High Level Design of the application:



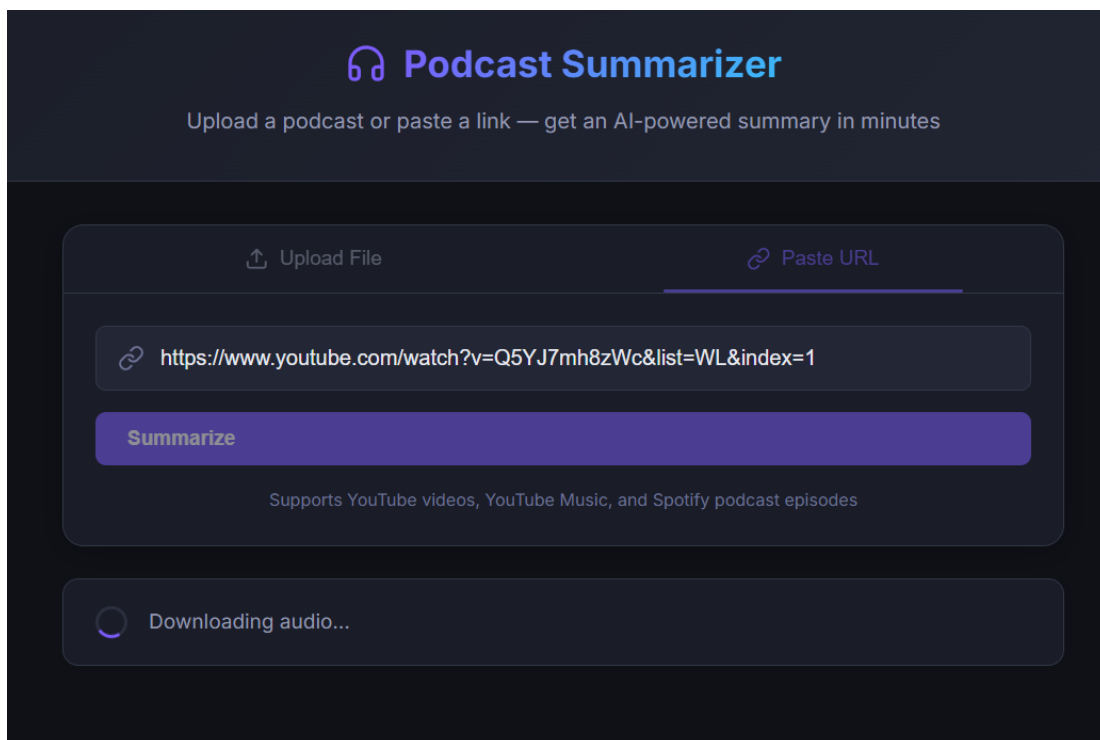
Now, moving to the UI, this is how the home screen looks like:



Few screenshots of the app in the process of transcribing and creating summary of the podcast file-



The app downloads the audio in case the link has been pasted for the podcast file-



So, I had pasted the Youtube link of the podcast: “[How To Be A Russian Oligarch' With Billionaire Mikhail Prokhorov](https://www.youtube.com/watch?v=Q5YJ7mh8zWc&list=WL&index=1)”, and the app provided the below summary of it with a full transcript:

Upload File

Paste URL

https://www.youtube.com/watch?v=Q5YJ7mh8zWc&list=WL&index=1

Summarize

Supports YouTube videos, YouTube Music, and Spotify podcast episodes

Results

Copy

New Summary

Summary

Key Points

Highlights

The Late Show meets Mikhail Prokhorov, a Russian oligarch who is friends with President Vladimir Putin. He has a jet and a yacht so big, it has its own yacht. He also ran for president in 2012, but he lost to Putin, which some say was the plan. Russian oligarch Mikhail Prokhorov trains in Tascow, an ancient Tibetan martial art. Prokharov is one of only 25 people in the world who can beat the top 25 practitioners of the art. The Red Room of Pain is the world's most expensive tree fort, filled with things like this.

Full Transcript

As you can notice that you can scroll down to view the whole transcript of the podcast-


Full Transcript


It's day three of Russia Week here at the Late Show. Now, thank you, people love the Russia Week. One of the reasons I went to Russia is because they have a strong man as a leader, and we have a man who would like to seem strong. And if he succeeds, if we're living under a strong man, Russia has proven that the best thing to be is an oligarch, which is Russian for rich guy, don't ask where his money came from. See, this is how things work over in Russia. Over there, the political system is controlled by wealthy elites who buy influence and pull strings of the government. Whereas in America, we speak English. The oligarchs are business friends of Vladimir Putin, who were given sweetheart deals to buy state-owned resources after the collapse of the Soviet Union. I was hoping to meet one, and also to not die. And we found the perfect guy, Mikhail Prokhorov. Jim? In 1995, Mikhail Prokhorov, a friend of Putin, struck gold. In this case, nickel, because he was allowed to buy a state-owned nickel mining conglomerate for just pennies on the nickel. Twelve years later, the high-flying bachelor high flew in his private jet to a French ski resort to party with 20 Russian models who the French police claimed were prostitutes, so they arrested him for le humain trafiquant. He was never charged, but it was so scandalous that reportedly, Vladimir Putin forced him to sell his share of the nickel mine right before the world economy drove off a cliff. So Lucky Mickey here ends up with more than \$9 billion. He has a jet and a yacht, he has his own yacht. He enjoys making the dice in


Then we move to the key points section-

Results

 Copy

 New Summary

 Summary

 Key Points

 Highlights

1

Over there, the political system is controlled by wealthy elites who buy influence and pull strings of the government.

2

The oligarchs are business friends of Vladimir Putin, who were given sweetheart deals to buy state-owned resources after the collapse of the Soviet Union.

3

In this case, nickel, because he was allowed to buy a state-owned nickel mining conglomerate for just pennies on the nickel.

4

He was never charged, but it was so scandalous that reportedly, Vladimir Putin forced him to sell his share of the nickel mine right before the world economy drove off a cliff.

5

He enjoys making the disco in Ibiza, hella skiing, and making rock videos of himself doing jet ski tricks.

6

Prokhorov stands six foot eight, and did I mention he's friends with Putin?

Below screenshot is of the highlights captured from the same podcast-

The screenshot shows a dark-themed application interface for podcast highlights. At the top, the word "Results" is displayed in white. To its right are two buttons: "Copy" with a document icon and "New Summary" with a circular arrow icon. Below this is a navigation bar with three options: "Summary" (with a document icon), "Key Points" (with a list icon), and "Highlights" (with a star icon and a blue underline). The main content area contains five highlighted quotes, each in a dark blue box with a vertical blue line on the left. The quotes are: "Remember I said, is there one crazy thing you do that nobody else does but it seems normal because you're a billionaire?", "Somebody's coming up behind me because I'm an oligarch now and they think they can take my oligarchy away.", "Prokhorov stands six foot eight, and did I mention he's friends with Putin?", "It's day three of Russia Week here at the Late Show.", and "He's pals with Jay-Z because he owns the Brooklyn Nets, the worst basketball team in the world." At the bottom, there is a "Full Transcript" button with a document icon and a downward arrow.

Results Copy New Summary

Summary Key Points **Highlights**

"Remember I said, is there one crazy thing you do that nobody else does but it seems normal because you're a billionaire?"

"Somebody's coming up behind me because I'm an oligarch now and they think they can take my oligarchy away."

"Prokhorov stands six foot eight, and did I mention he's friends with Putin?"


"It's day three of Russia Week here at the Late Show."


"He's pals with Jay-Z because he owns the Brooklyn Nets, the worst basketball team in the world."


Full Transcript ▼


Now, adding screenshots to show that **the app works as expected on the uploaded file as well**. For this I downloaded the MP3 version of the podcast: "[Josh Brolin: How I Became a Day Trader](#)" and then uploaded it to the app. The app provided the summary and the full transcript as shown-


Results

 Copy


 New Summary


 Summary

 Key Points

 Highlights

"I had to earn money. I had children going to school and I just wasn't making money," he says. "I'm in a profession that works really well for me because I'm an insatiably curious person" don't you? Yes. Desperately. And, and it's just kind of, it's been okay. It all works out okay. And the story is more interesting anyway.

 Full Transcript



You were consistently working, I mean, from the time of Goonies up until today, and even to country of the world men, I mean, there was film or television. But I gather clearly there was a moment in your life and in your 20s when I imagine you thought, this is probably not gonna work out. I mean, you went, you left, not left, but you, for time being, you became like a stock trader. I mean, I had to. I had to earn money. I had children. I had children going to school and I just wasn't making money, man. I mean, I wasn't, you know, if you're lucky enough to make 100,000 a year, you know, which I wasn't. If you're lucky enough, then you're clearing 30,000 after taxes and commissions, and if you have a lawyer and you have a manager and an agent and all this stuff that I had back then. But I just wasn't cutting it. So, you know, I met a guy, Brett Markinson, on the airplane. I, we really hit it off. We laughed a lot and he was, he traded. It was part of what he did. He was an entrepreneur, but he traded and he was very disciplined in it. And I was just curious. It was another thing to be curious about. I'm in a profession that works really well for me because I'm an insatiably curious person. Yes. So. I can delve into these

Then comes the key points-


Summary


Key Points


Highlights

- 1 You were consistently working, I mean, from the time of Goonies up until today, and even to country of the world men, I mean, there was film or television.
- 2 But I gather clearly there was a moment in your life and in your 20s when I imagine you thought, this is probably not gonna work out.
- 3 I mean, you went, you left, not left, but you, for time being, you became like a stock trader.
- 4 I had children going to school and I just wasn't making money, man.
- 5 I mean, I wasn't, you know, if you're lucky enough to make 100,000 a year, you know, which I wasn't.
- 6 If you're lucky enough, then you're clearing 30,000 after taxes and commissions, and if you have a lawyer and you have a manager and an agent and all this stuff that I had back then.

And lastly, the highlights-

 Summary

 Key Points

 Highlights

"It's an, it was an interesting thing for me to get into and then I ended up when I was really on it, which I'm not now."

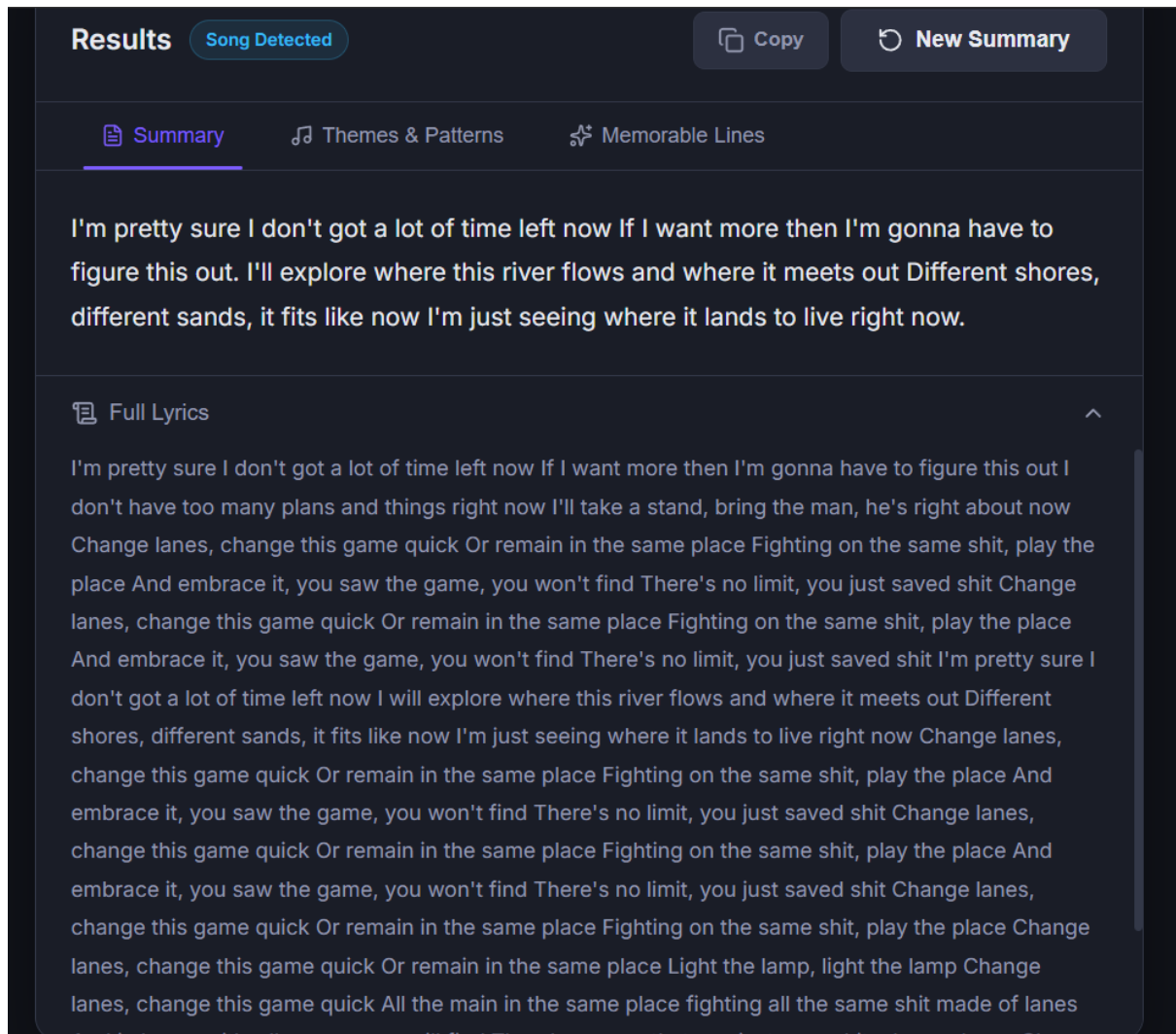
"I had children going to school and I just wasn't making money, man."

"I mean, I wasn't, you know, if you're lucky enough to make 100,000 a year, you know, which I wasn't."

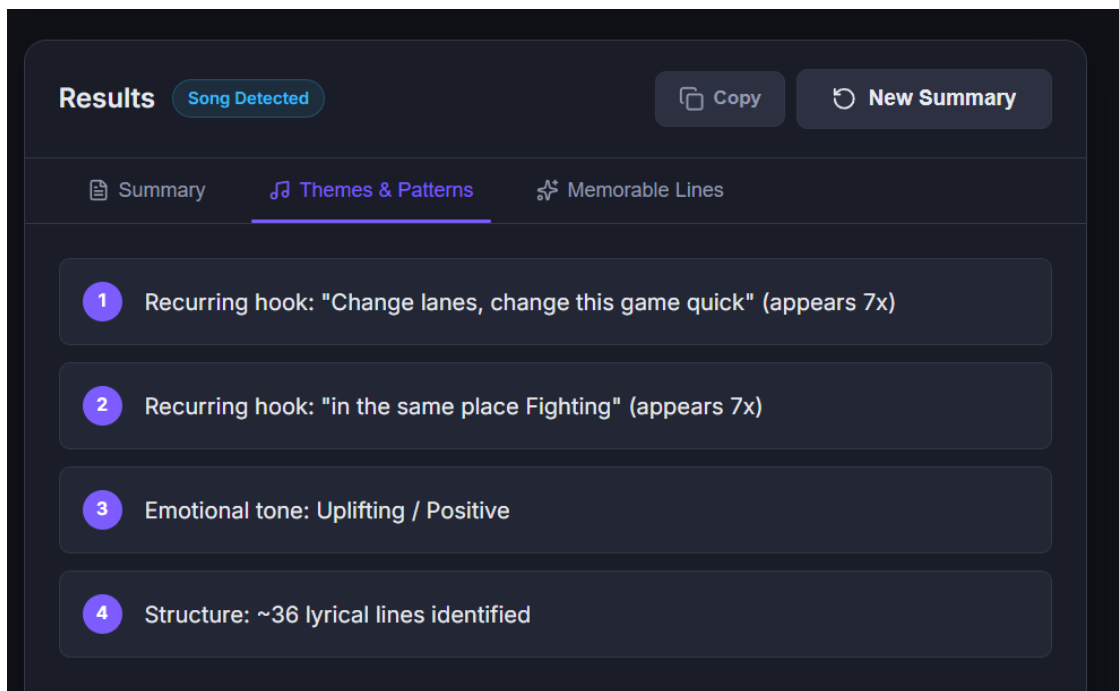
"If you're lucky enough, then you're clearing 30,000 after taxes and commissions, and if you have a lawyer and you have a manager and an agent and all this stuff that I had back then."

"I get to feel like I've lived 50 lives instead of one or two."

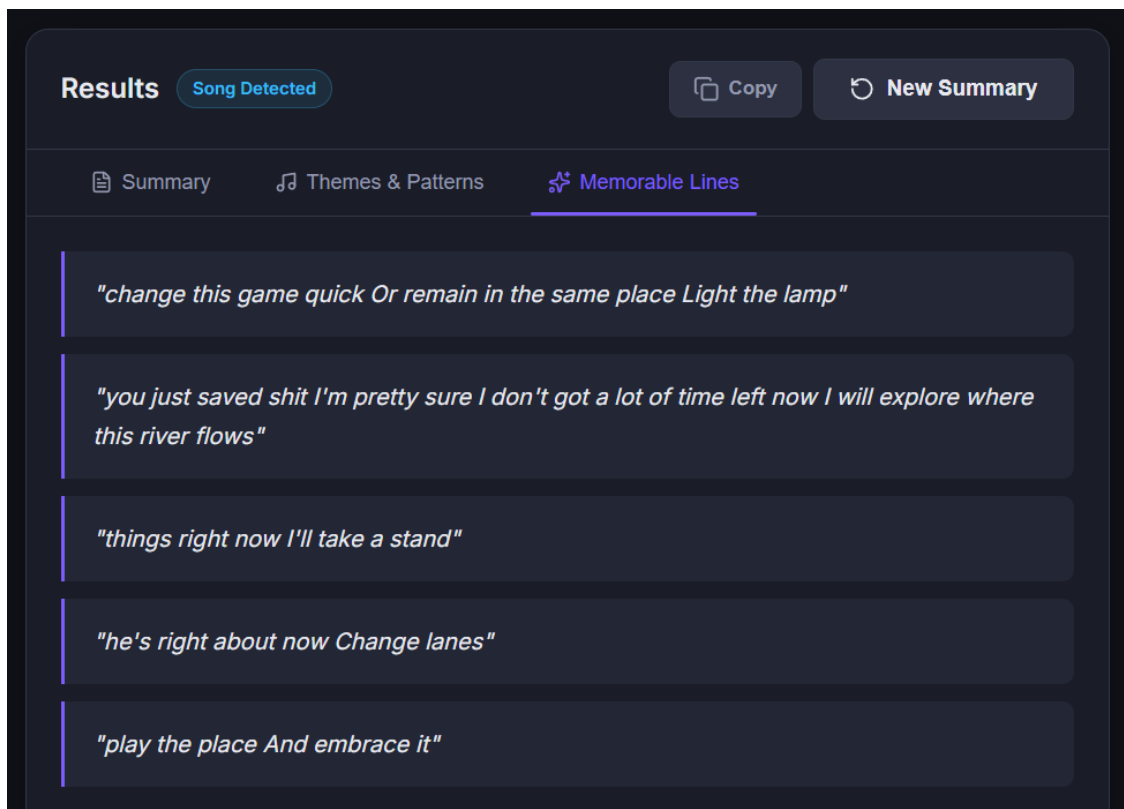
Further, I tweaked the app to extract lyrics of songs as well (as Spotify doesn't have lyrics for quite a few of them). So, I chose one of these songs to test the working of the app. The song used is - Right Now by Nathan. And guess what, it worked!



The app detects that the audio uploaded is a song and renames the 'Key Points' section to 'Themes & Patterns' in case of songs-



Also, the 'Highlights' section gets renamed to 'Memorable Lines' in case of songs as shown-



That's all for now!