

Podcast Summarizer App

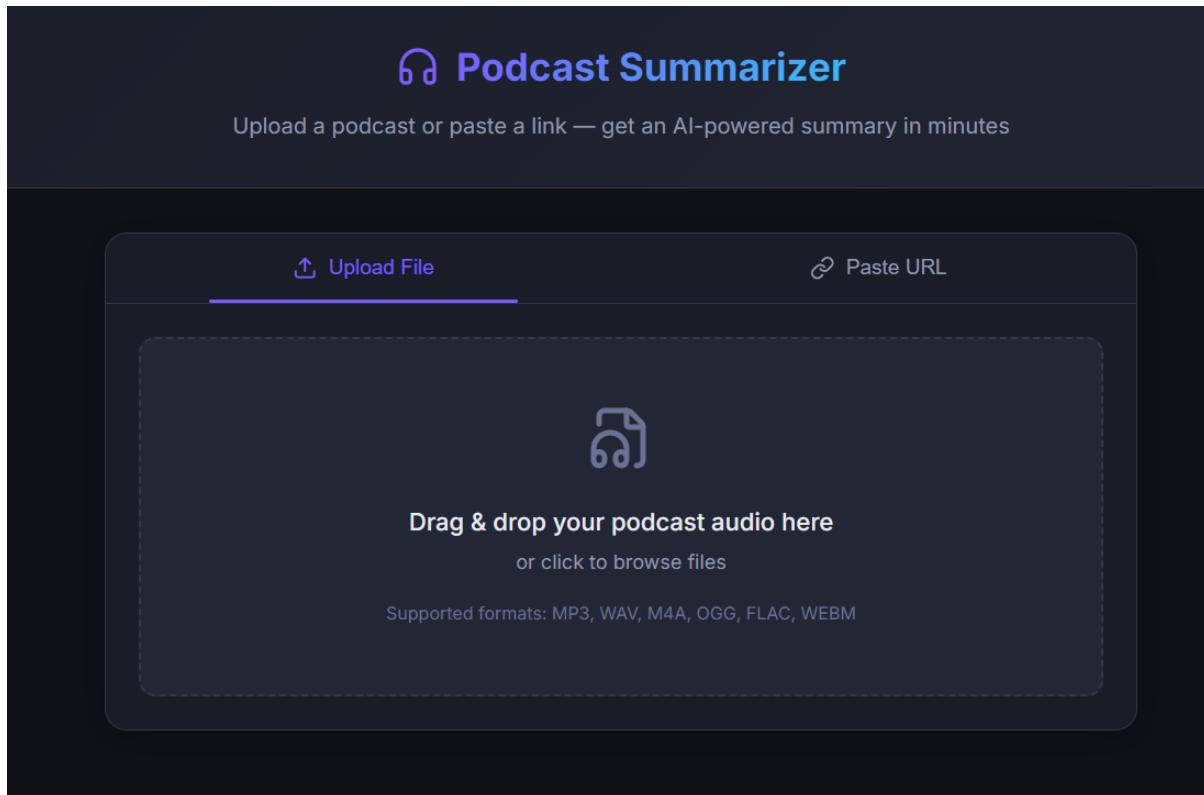
The Podcast Summarizer app is used to extract the summary, full transcript, key points and highlights from audio uploads (MP3, WAV, M4A, OGG, FLAC, WEBM) or YouTube/Spotify podcast URLs.

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

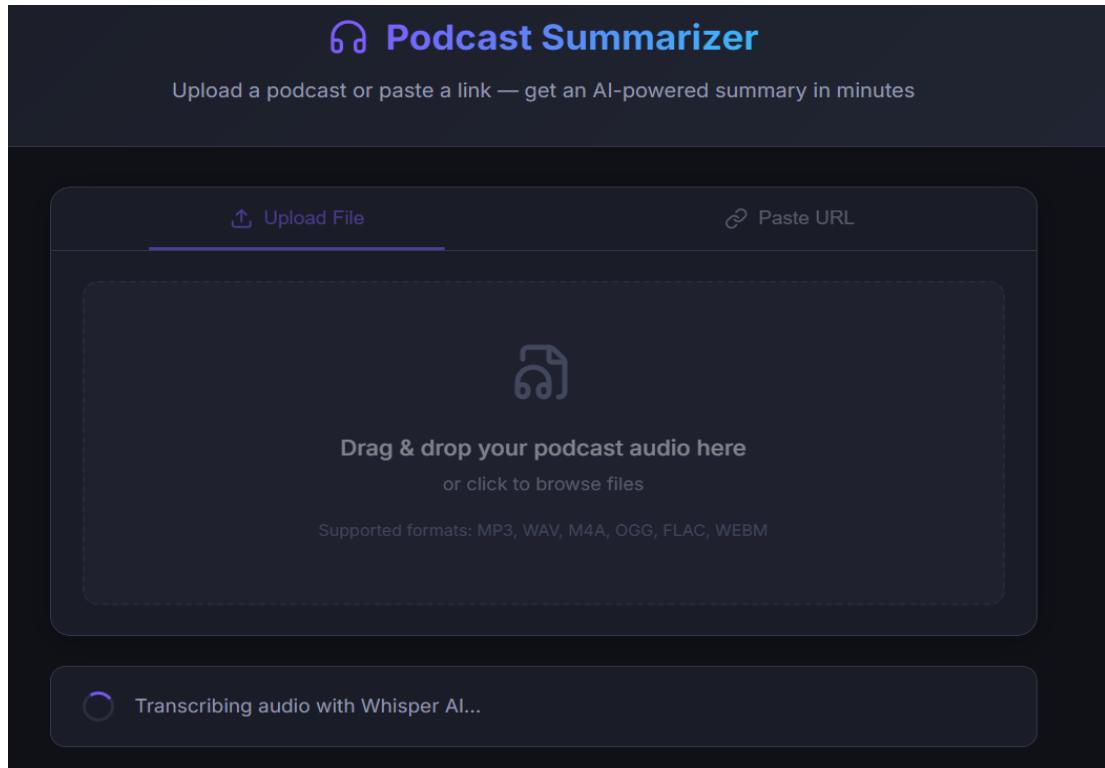
This is the High Level Design of the application:



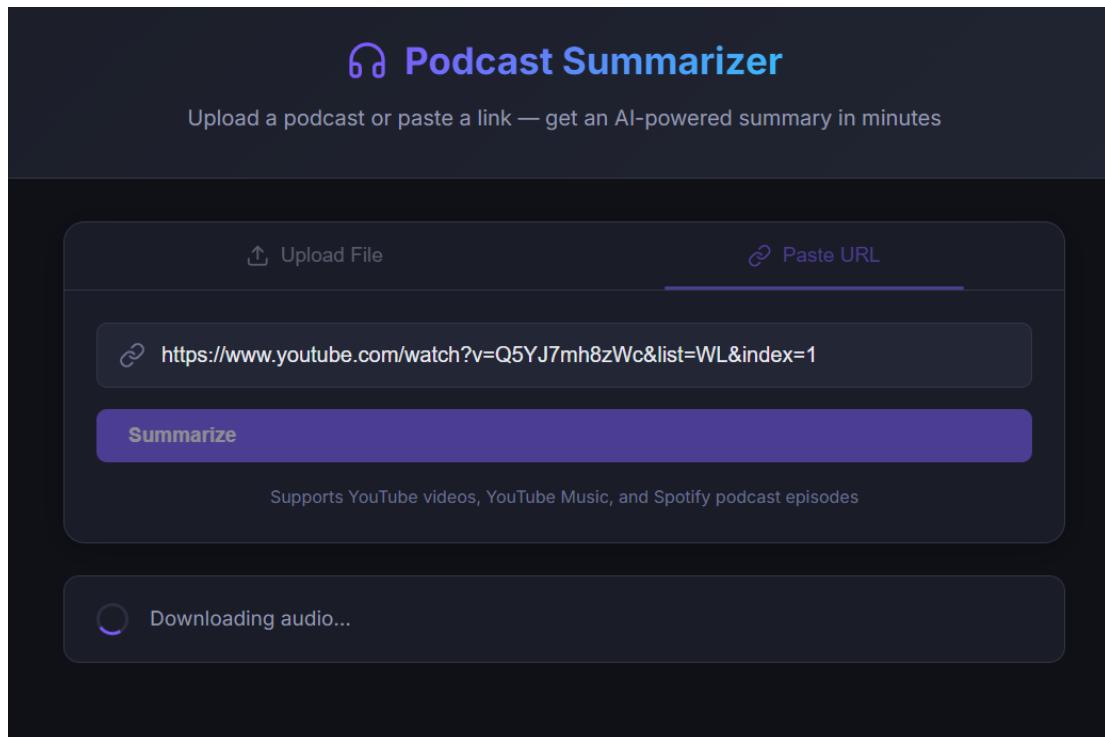
Now, moving to the UI, this is how the home screen looks like:



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](#)", and the app provided the below summary of it with a full transcript:

The screenshot shows a user interface for summarizing media content. At the top, there are two input fields: "Upload File" with an upward arrow icon and "Paste URL" with a clipboard icon. Below these is a URL input field containing <https://www.youtube.com/watch?v=Q5YJ7mh8zWc&list=WL&index=1>. A large blue button labeled "Summarize" is positioned below the URL field. A note below the button states: "Supports YouTube videos, YouTube Music, and Spotify podcast episodes".

The main content area is titled "Results". It includes three tabs: "Summary" (which is underlined in blue), "Key Points", and "Highlights". The "Summary" tab displays the following text:

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.

At the bottom left of the results section is a "Full Transcript" button with a document icon. A small downward arrow icon is located at the bottom right corner of the results section.

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 traquant. 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 \$0 billion. He has a jet and a yacht as big as his. It has its own yacht. He enjoys making the dinner in

Then we move to the key points section-

The screenshot shows a dark-themed digital note-taking application interface. At the top, there's a header bar with the word "Results" on the left and two buttons on the right: "Copy" with a clipboard icon and "New Summary" with a circular arrow icon. Below the header, there are three tabs: "Summary" (disabled), "Key Points" (selected, indicated by a blue underline), and "Highlights". The main content area displays a numbered list of six key points, each enclosed in a rounded rectangular box:

- 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 mobile application interface for a podcast. At the top, there's a dark header with the word "Results". To the right of the header are two buttons: "Copy" with a clipboard icon and "New Summary" with a circular arrow icon. Below the header, there are three tabs: "Summary", "Key Points", and "Highlights", with "Highlights" being the active tab, indicated by a blue underline. The main content area contains five highlighted text snippets, each enclosed in a light gray rounded rectangle. The first quote is: "Remember I said, is there one crazy thing you do that nobody else does but it seems normal because you're a billionaire?". The second quote is: "Somebody's coming up behind me because I'm an oligarch now and they think they can take my oligarchy away.". The third quote is: "Prokhorov stands six foot eight, and did I mention he's friends with Putin?". The fourth quote is: "It's day three of Russia Week here at the Late Show.". The fifth quote is: "He's pals with Jay-Z because he owns the Brooklyn Nets, the worst basketball team in the world.". At the bottom of the screen, there's a "Full Transcript" button with a document icon and a small downward arrow icon on the right side.

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-

The screenshot shows a mobile application interface with a dark background. At the top, there is a header bar with the word "Results". To the right of the header are two buttons: "Copy" and "New Summary". Below the header, there are three tabs: "Summary" (which is underlined in blue, indicating it is selected), "Key Points", and "Highlights". The main content area displays a summary of a podcast quote: "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." Below this summary, there is a section titled "Full Transcript" with a downward arrow icon. The transcript text is as follows: 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-

The screenshot shows a mobile application interface with a dark theme. At the top, there are three tabs: 'Summary' (with a document icon), 'Key Points' (with a list icon, currently selected), and 'Highlights' (with a magnifying glass icon). Below the tabs is a list of six numbered points, each enclosed in a rounded rectangular box:

- 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-

The screenshot shows a digital interface for managing notes or recordings. At the top, there are three tabs: "Summary", "Key Points", and "Highlights". The "Highlights" tab is currently selected, indicated by an underline and a small icon. Below the tabs, there are five separate callout boxes, each containing a quote in white text on a dark background. The quotes are as follows:

- "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 screenshot shows the app's user interface for analyzing the song "Right Now" by Nathan. At the top, there are tabs for "Song Detected", "Summary", "Themes & Patterns", and "Memorable Lines". The "Summary" tab is currently active. Below the tabs, there is a summary of the lyrics: "I'm pretty sure I don't got a lot of time left now If I want more then I'm gonna have to figure this out. I'll explore where this river flows and where it meets out Different shores, different sands, it fits like now I'm just seeing where it lands to live right now." Under the "Full Lyrics" heading, the entire lyrics of the song are displayed:

I'm pretty sure I don't got a lot of time left now If I want more then I'm gonna have to figure this out I don't have too many plans and things right now I'll take a stand, bring the man, he's right about now Change lanes, change this game quick Or remain in the same place Fighting on the same shit, play the place And embrace it, you saw the game, you won't find There's no limit, you just saved shit Change lanes, change this game quick Or remain in the same place Fighting on the same shit, play the place And embrace it, you saw the game, you won't find There's no limit, you just saved shit I'm pretty sure I don't got a lot of time left now I will explore where this river flows and where it meets out Different shores, different sands, it fits like now I'm just seeing where it lands to live right now Change lanes, change this game quick Or remain in the same place Fighting on the same shit, play the place And embrace it, you saw the game, you won't find There's no limit, you just saved shit Change lanes, change this game quick Or remain in the same place Fighting on the same shit, play the place Change lanes, change this game quick Or remain in the same place Light the lamp, light the lamp Change lanes, change this game quick All the main in the same place fighting all the same shit made of lanes

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

The screenshot shows a dark-themed user interface for analyzing a song. At the top, there's a header with "Results" and a blue button labeled "Song Detected". To the right are "Copy" and "New Summary" buttons. Below the header, there are three tabs: "Summary", "Themes & Patterns" (which is underlined in blue), and "Memorable Lines". The main content area displays four numbered findings:

- 1 Recurring hook: "Change lanes, change this game quick" (appears 7x)
- 2 Recurring hook: "in the same place Fighting" (appears 7x)
- 3 Emotional tone: Uplifting / Positive
- 4 Structure: ~36 lyrical lines identified

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

The screenshot shows the same dark-themed interface, but the "Themes & Patterns" tab has been replaced by the "Memorable Lines" tab, which is underlined in blue. The main content area lists several memorable lines from the song:

- "change this game quick Or remain in the same place Light the lamp"
- "you just saved shit I'm pretty sure I don't got a lot of time left now I will explore where this river flows"
- "things right now I'll take a stand"
- "he's right about now Change lanes"
- "play the place And embrace it"

That's all for now!