Gap Analysis based on the tools we have seen in our research:

These are notes based on our "speed dating" coffee chats we had with each other

Vishruth's Gap Analysis:

- While Suno is very competent in generating AI music based on your description, I have concerns regarding how similar the music is. When comparing sad music to happy music, other than the speed of the beat, the feeling of the music sounded the exact same. Sad music was not inherently sadder than happy music and vice versa. I feel like this is a concern, with generating beginner level music, so we might need to find a way to differentiate music types

- Another cause for concern with tools like Lyrice (Gemini), is the lyrics. The lyrics often make no sense, and it feels like the vocalist is saying random words that happen to match the beat. When creating music, we need to decide if our tool will create music with people singing, or just creating beats

Inika's Gap Analysis:

- One major gap with tools of Suno, Gemini and ChatGPT is they lack the educational aspect unless specifically prompted. For ChatGPT and Gemini, they give you a bunch of beats, numbers, and words that would seem really confusing if you are a beginner. We will address this by making the app teach the user is some way shape or form so they know what they are doing

- Another issue, going off of the educational aspect, having the app do everything for you kind of takes away the learning for the user. The whole point of our app is to be an easy and friendly way where users can create simple beats/music while understanding what they are doing.

Jihan's Gap Analysis:

- One thing I noticed is that Gemini was the only LLM that was capable of producing a beat and tempo analysis, alongside a 30 second music video with an actual song. Our app should be like Gemini but should have the educational aspect attached with it. We really need to emphasize the educational aspect. We also need to decide if we are going to export our music as a MIDI file or an mp3 file.

- Maybe we can try to implement a Gemini API key, and use Gemini as a means of producing the mp3 (if we decide to go that route), then use another LLM to help teach what is actually going on, so the user is able to understand. This solves both the issues we are trying to tackle at the same time

Krish's Gap Analysis:

- I took the time to explore another AI music app called, “Udio”. Although this app was very similar to Suno, it had an issue of being too hard to use and navigate. The app constantly tried to get me to pay money for its service, and I just ran into a string of errors and was unable to generate music

- This is an issue we probably will not run into, however it is important to make sure that our users are able to have a seamless experience when it comes to generating the music as well as making sure they are easily able to navigate the app.