

LearnSage blog

Evaluation criteria

Your project will be judged on its real-world usefulness, feature completeness, and the story behind it. The blog should cover your inspiration, problem-solving approach, and the impact, with a focus on UI/UX design.

My story

Learn better when there are real life examples and portraying where what i am learning is applied. But i have always struggled to get learning materials that are structured in this way.

The problem

The problem is that any learning material is always written or prepared in one learning material. And people have got different learning styles.

And also the instructors or teachers also use one learning style to teach their students, hence leaving out some other students,

Solution

learnSage is an AI learning assistant, that helps students convert their learning material to their learning style. And get personalized content. We learn differently

I am innovation using large language model apis from providers

Keeps you engaged.

All in one

Curated content

You can ask any general question and an answer in your learning format

You can analyse and interact with images and videos

Interact with YouTube videos

Can upload your own document and interact with them with a reference

While learning, you can do a quick search from the web with in the application

Can generate a report about any topic and get a fully written report with references from web,

You can ask your question using a voice, and you can listen to then output

After a learning session, you get a summary of what you have learnt about

And also you get a Q&A at the end of the learning session

I have prototyped the user interface using streamlit web application framework

UX/UI DESIGN

Learnsage is designed in learning session structure where a learner starts a session and learns and interacts with the all components but one at a time. After the learning session, a learner can get a summary of everything she/he learnt about. All a learner needs to is to input his api keys since many are paid and choose a learning style format and he is on a roll there

Learnsage is designed in a such way that a learner interacts with one component at a time but during summarization

The tech stack.

Google Gemini IIm api for content generations and embedding creation

Qdrant vector database

Langchain framework used to develop IIm application easily

Streamlit web application framework

Talivy for web searching

Assembly AI for transcribing

Hosted in Streamlit cloud just to show case how it works...

But you can build it locally on your machine by cloning learnsage from github

You install the dependencies

And run the program

At this stage, learnsage does not collect any data from users

Next step is develop the frontend using flutter and deploy it in the cloud so that you can use learnsage anywhere

And finetuning llms to make them more for this purpose of personalized learning