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Generative_AI_Workshop

ChatBot with Gemini AI and LangChain

- Colab Link
  - https://colab.research.google.com/drive/1AAfJWpwO1-HyTuYu32daJjdqT2EhNxPv

Prompts and Examples

Code snippets to publish through Code Playground:

Code Playground Link: https://code-playground.ccbp.in

- ▶ HTML
- ▶ CSS Code
- ▶ Javascript Code

ChatBot with Gemini AI, LanhChain, and ElevenLabs

- https://colab.research.google.com/drive/1-cjs6aaWjupwUg-UKd3X2QVz1k_vtnA1

Handbook for Troubleshooting Errors (If any)

- ChatBot with Gemini AI and LangChain Handbook
- ChatBot with Gemini AI, LanhChain and ElevenLabs Handbook

Nutz and Bolts for Generative AI Applications

- **Google Colab:** It is a cloud-based platform by Google designed for running and sharing Jupyter notebooks.

  ▼ **Steps for creating a Google Colab Notebook:**

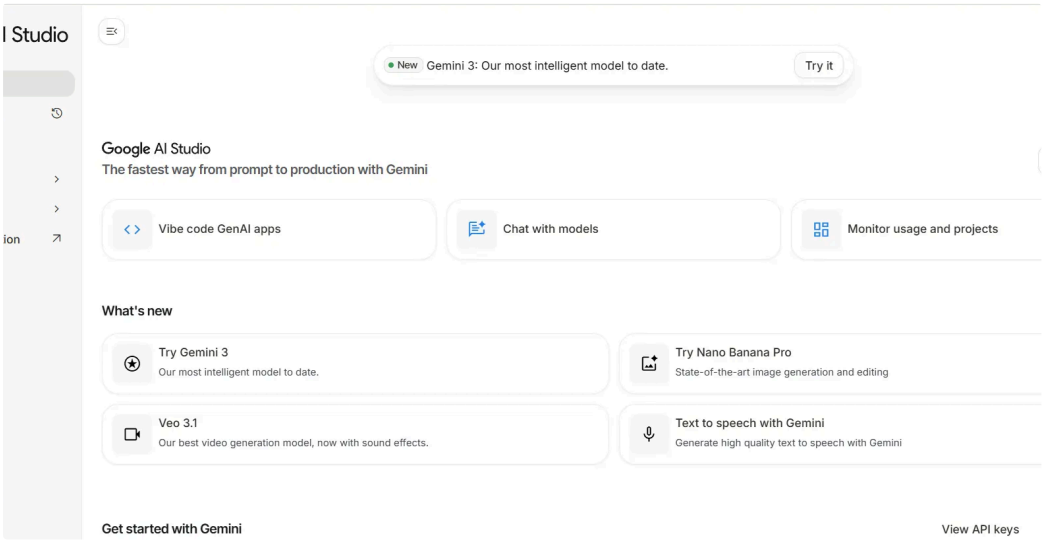
  Creating a “Google Colab notebook” is a straightforward process. Here are the steps to create one:

  - Open - https://colab.research.google.com/
  - Log in with your Google Account
  - Rename your Notebook and start writing the code
  - Click on File
  - From the results, select New Notebook

- **Gemini AI:** An AI-based chat service powered by Gemini AI's language model.
  - **Steps for Creating an Gemini Account:**

    Here are the general steps you can follow to create an “Gemini AI” account:

    - Open https://aistudio.google.com/
    - Click on Get Started
    - Click Sign In with Google
    - The below options will be show



    - Click on Get API Key and create a new API

- **Pinecone:** A scalable vector database service designed for efficient similarity search in high-dimensional data.
  - **Steps for creating a Pinecone Account:**

    Here are the general steps to create a Pinecone account:

    - Open https://www.pinecone.io/
    - Click on Sign Up Free Button
    - Click on continue with Google

- **ElevenLabs:** ElevenLabs is a platform that allows you to clone voices using artificial intelligence. The platform uses a deep learning model to train a voice clone that sounds almost exactly like the original voice.

  ▼ **Steps for creating an ElevenLabs Account:**

  Following are the steps for creating an account for “ElevenLabs Account”:

  - Open https://elevenlabs.io/app/sign-in
  - Click on Sign in
  - Since you don’t have an account, click on the Sign Up button
  - Click on Sign Up with Google
  - Account will be created

  ▼ **Assign your Voice to a variable and set the URL to a variable**

  - For Default/Pre-made Voices:
    1. Login to ElevenLabs at **https://elevenlabs.io/**
    2. Go to the Voices section from the left sidebar
    3. Click on the "Default Voices" tab
    4. Browse through the available voices (Rachel, Sarah, Clyde, etc.)
    5. Click on the three dots menu (⋮) next to any voice you want to use
    6. Select "Copy voice ID" from the dropdown menu
    7. The Voice ID will be copied to your clipboard
    8. Paste this ID as the value for `ELEVENLABS_VOICE_ID` in your code
  - For Custom/Cloned Voices:
    1. Login to ElevenLabs at **https://elevenlabs.io/**
    2. Go to the Voices section from the left sidebar
    3. Click on the "My Voices" tab
    4. Find your custom or cloned voice
    5. Click on the three dots menu (⋮) next to your voice
    6. Select "Copy voice ID"
    7. Paste this ID as the value for `ELEVENLABS_VOICE_ID` in your code

- **HuggingFace:** An organization known for its popular library providing easy access to pre-trained models and natural language processing tools.
  - **Steps for creating a HuggingFace Account:**

    To create a Hugging Face account, you can follow these general steps:

    - Open https://huggingface.co/
    - Click on Sign Up
    - Enter your details and Click on Sign Up
    - Enter Your Details and Submit
    - Click on your Profile, and you can create your spaces
    - **Steps for creating Access Token in Hugging Face:**
    - **How to embed your Gradio App using Hugging Face in your Client Application:**

- **LangChain:** A library for building and training language models.

  Open:

- **Gradio:** An open-source library for building and sharing customizable web