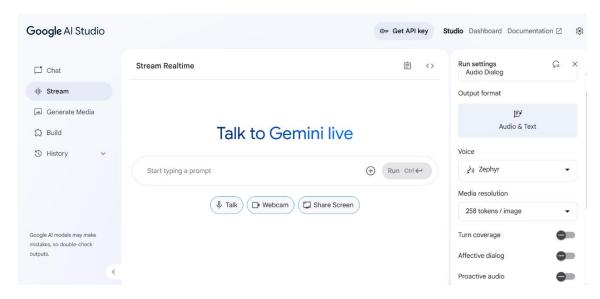
# **Google AI studio**

# **Day - 7**

# Features of Google AI studio -



### 1. Talk to Gemini Live (Realtime Stream)

- o Interact with Gemini AI in real time via text, voice, webcam, or screen sharing.
- You can type prompts or speak directly using the "Talk" button.

#### 2. Output Formats

- o Choose between:
  - Audio & Text (speech + text response)
  - Possibly Text-only or Audio-only (not shown in the screenshot, but usually available).

#### 3. Voice Options

- Select the voice used for responses (e.g., Zephyr).
- o Google provides several AI voices for more natural conversation.

#### 4. Media Resolution

- o Configure response detail like tokens per image (258 tokens/image shown).
- o This controls how much descriptive data is tied to visual responses.

#### 5. Dialog Settings

o Enable or disable:

- Turn Coverage: Handles response turns (e.g., multi-turn dialogue).
- Affective Dialog: Adds emotion/context-awareness to replies.
- Proactive Audio: AI may initiate/respond more naturally with sound.

## Speech to Text -

```
import speech recognition as sr
import google.generativeai as genai
# 😈 Configure Gemini API
genai.configure(api key="AlzaSyDmnhTn1Daxz- 658fkk7iUjVciVSvmTEM")
model = genai.GenerativeModel(model name="gemini-2.0-flash")
# / Initialize recognizer
recognizer = sr.Recognizer()
with sr.Microphone() as source:
  print(" Please speak now...")
  recognizer.adjust for ambient noise(source)
  audio = recognizer.listen(source)
  print(" ✓ Voice captured. Transcribing...")
# 🧠 Try transcription and Gemini
try:
  text = recognizer.recognize_google(audio)
  print("\n >> You said:", text)
  print("\n  Gemini is replying...")
  response = model.generate_content(text)
  print(" Gemini says:\n", response.text)
  # | Ask AFTER transcription
  save_choice = input("\n \blacksquare Do you want to save your audio as a file? (y/n):
").strip().lower()
```

```
if save_choice == 'y':
    audio_path = "user_audio.wav"
    with open(audio_path, "wb") as f:
        f.write(audio.get_wav_data())
    print(f" Audio saved as: {audio_path}")
    else:
        print(" Audio not saved.")

except sr.UnknownValueError:
    print(" Could not understand what you said.")

except sr.RequestError as e:
    print(f" Speech Recognition error: {e}")

except Exception as e:
    print(f" Unexpected error")
```

#### Output -

