```
import os
os.environ['GEMINI_API_KEY'] = 'AIzaSyB8z8zZXFY9UfuBxL-fY9hlWNnDEShj2I8'
```

```
!pip install -q -U google-generativeai
```

```
import google.generativeai as genai
genai.configure(api_key=os.environ['GEMINI_API_KEY'])
```

```
model = genai.GenerativeModel('gemini-2.5-flash-preview-04-17')
```

```
response = model.generate_content("create table to explain about ai, generative ai and agentic ai")
print(response.text)
```

```
Okay, here is a table explaining Artificial Intelligence (AI), Generative AI, and Agentic AI, highlighting their key characteristics and

**Explanation Table: AI, Generative AI, and Agentic AI**

This table outlines the relationship and distinct features of Artificial Intelligence (the broad field), Generative AI (a specific capab

| Feature                | Artificial Intelligence (AI)                    | Generative AI (GenAI)                                          |
| :--------------------- | :---------------------------------------------- | :------------------------------------------------------------- |
| **What is it?**        | The overarching field of creating systems that can perform tasks typically requiring human intelligence. | A
| **Relationship to Others** | The Parent Field. Generative AI and Agentic AI are sub-disciplines, applications, or capabilities *within
| **Primary Goal**       | To enable machines to exhibit intelligent behavior and solve problems traditionally requiring human intellec
| **Core Capability**    | Learning from data, solving problems, making decisions, perceiving environments, natural language understand
| **Focus**              | Simulating intelligence in various forms.      | Creation of new data/content.                                  | Au
| **Key Characteristic** | Broad spectrum of techniques (Machine Learning, Deep Learning, Rules-based, etc.). Focuses on the *capabilit
| **Typical Output**     | Decisions, predictions, classifications, insights, analyses, actions (broad). | New text, images, audio, vid
| **Examples**           | Spam filters, recommendation engines, facial recognition, autonomous vehicle perception systems, diagnostic

**In Summary:**

*   **AI** is the general concept of intelligent machines.
*   **Generative AI** is a *type* of AI focused specifically on *creating* new content.
*   **Agentic AI** is a *way of applying* AI (often including Generative AI for reasoning) to enable systems to *autonomously plan and a
```

```
import PIL.Image

img = PIL.Image.open('/content/elephant_img.jpg')
img
```

```
model = genai.GenerativeModel('gemini-2.5-flash-preview-04-17')


response = model.generate_content(img)
print(response)
```

```
response:
GenerateContentResponse(
    done=True,
    iterator=None,
    result=protos.GenerateContentResponse({
      "candidates": [
        {
          "content": {
            "parts": [
              {
                "text": "A charming cartoon illustration depicts a baby elephant standing on the muddy bank of a river. The adorable ele
              }
            ],
            "role": "model"
```

```
            },
            "finish_reason": "STOP",
            "index": 0
          }
        ],
        "usage_metadata": {
          "prompt_token_count": 259,
          "candidates_token_count": 116,
          "total_token_count": 526
        },
        "model_version": "models/gemini-2.5-flash-preview-04-17"
      }),
)
```


Start coding or generate with AI.

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