testedgeminimodel

August 19, 2024

```
[1]: !pip install -q -U google-generativeai
```

1 Import Packages

```python
[2]: import pathlib
     import textwrap

     import google.generativeai as genai

     from google.colab import userdata

     from IPython.display import display
     from IPython.display import Markdown

     def to_markdown(text):
       text = text.replace('•', ' *')
       return Markdown(textwrap.indent(text,'>', predicate=lambda _: True))
```

2 Setup your API key

```python
[3]: import os
     os.environ["GOOGLE_API_KEY"] = userdata.get("GOOGLE_API_KEY")
```

```python
[4]: genai.configure(api_key=os.environ["GOOGLE_API_KEY"]  )
```

```python
[5]: for m in genai.list_models():
       if 'generateContent' in m.supported_generation_methods:
         print(m.name)
```

```
models/gemini-1.0-pro-latest
models/gemini-1.0-pro
models/gemini-pro
models/gemini-1.0-pro-001
models/gemini-1.0-pro-vision-latest
models/gemini-pro-vision
models/gemini-1.5-pro-latest
```

```
models/gemini-1.5-pro-001
models/gemini-1.5-pro
models/gemini-1.5-pro-exp-0801
models/gemini-1.5-flash-latest
models/gemini-1.5-flash-001
models/gemini-1.5-flash
models/gemini-1.5-flash-001-tuning
```

[7]:
```python
model = genai.GenerativeModel('gemini-pro')
model
```

[7]:
```
genai.GenerativeModel(
    model_name='models/gemini-pro',
    generation_config={},
    safety_settings={},
    tools=None,
    system_instruction=None,
    cached_content=None
)
```

[8]:
```python
%%time
response = model.generate_content("What is the meaning of life?")
```

```
CPU times: user 123 ms, sys: 14.3 ms, total: 137 ms
Wall time: 11.1 s
```

[9]:
```python
to_markdown(response.text)
```

[9]:

Philosophical Perspectives:

- **Existentialism:** There is no inherent meaning in life, but individuals create their own meaning through their actions and choices. (e.g., Søren Kierkegaard, Jean-Paul Sartre)
- **Absurdism:** Life is ultimately meaningless and devoid of purpose. The human quest for meaning is an illusion. (e.g., Albert Camus)
- **Nihilism:** There is no objective meaning, truth, or value in existence. (e.g., Friedrich Nietzsche)
- **Hedonism:** The goal of life is to maximize pleasure and minimize pain. (e.g., Epicurus)
- **Stoicism:** The meaning of life lies in living in accordance with nature and virtue, regardless of external circumstances. (e.g., Marcus Aurelius)

Religious Perspectives:

- **Theism:** The meaning of life is to love, serve, and glorify God. Life is a journey to reconnect with the divine and achieve salvation. (e.g., Christianity, Islam, Judaism)
- **Buddhism:** The goal of life is to end suffering and achieve enlightenment through the Eightfold Path. (e.g., Theravada, Mahayana)

- **Hinduism:** The purpose of life is to fulfill one's dharma (duty), evolve through the cycle of rebirth, and attain moksha (liberation from the cycle). (e.g., Advaita Vedanta)

Scientific Perspectives:

- **Evolutionary Psychology:** The meaning of life is to survive, reproduce, and pass on genes. (e.g., Richard Dawkins)
- **Neuroscience:** The pursuit of meaning is a fundamental aspect of human consciousness and brain function. (e.g., Viktor Frankl)

Individual Perspectives:

- **Purpose:** Finding a sense of purpose or mission that gives direction and fulfillment.
- **Connection:** Having meaningful relationships with others and feeling connected to a community.
- **Growth:** Learning, evolving, and improving oneself through personal development.
- **Contribution:** Making a positive impact on the world and leaving a legacy.
- **Happiness:** Experiencing positive emotions and a sense of well-being.

Note: The meaning of life is a highly subjective and personal question, and there is no single answer that fits everyone. The perspectives described above provide a starting point for exploration and reflection.

```
[11]: print(response.prompt_feedback)
```

```
[12]: response.candidates
```

```
[12]: [content {
        parts {
          text: "**Philosophical Perspectives:**\n\n* **Existentialism:** There is no
      inherent meaning in life, but individuals create their own meaning through their
      actions and choices. (e.g., S\303\270ren Kierkegaard, Jean-Paul Sartre)\n*
      **Absurdism:** Life is ultimately meaningless and devoid of purpose. The human
      quest for meaning is an illusion. (e.g., Albert Camus)\n* **Nihilism:** There is
      no objective meaning, truth, or value in existence. (e.g., Friedrich
      Nietzsche)\n* **Hedonism:** The goal of life is to maximize pleasure and
      minimize pain. (e.g., Epicurus)\n* **Stoicism:** The meaning of life lies in
      living in accordance with nature and virtue, regardless of external
      circumstances. (e.g., Marcus Aurelius)\n\n**Religious Perspectives:**\n\n*
      **Theism:** The meaning of life is to love, serve, and glorify God. Life is a
      journey to reconnect with the divine and achieve salvation. (e.g., Christianity,
      Islam, Judaism)\n* **Buddhism:** The goal of life is to end suffering and
      achieve enlightenment through the Eightfold Path. (e.g., Theravada, Mahayana)\n*
      **Hinduism:** The purpose of life is to fulfill one\'s dharma (duty), evolve
      through the cycle of rebirth, and attain moksha (liberation from the cycle).
```

(e.g., Advaita Vedanta)\n\n**Scientific Perspectives:**\n\n* **Evolutionary Psychology:** The meaning of life is to survive, reproduce, and pass on genes. (e.g., Richard Dawkins)\n* **Neuroscience:** The pursuit of meaning is a fundamental aspect of human consciousness and brain function. (e.g., Viktor Frankl)\n\n**Individual Perspectives:**\n\n* **Purpose:** Finding a sense of purpose or mission that gives direction and fulfillment.\n* **Connection:** Having meaningful relationships with others and feeling connected to a community.\n* **Growth:** Learning, evolving, and improving oneself through personal development.\n* **Contribution:** Making a positive impact on the world and leaving a legacy.\n* **Happiness:** Experiencing positive emotions and a sense of well-being.\n\n**Note:** The meaning of life is a highly subjective and personal question, and there is no single answer that fits everyone. The perspectives described above provide a starting point for exploration and reflection."
    }
    role: "model"
  }
  finish_reason: STOP
  index: 0
  safety_ratings {
    category: HARM_CATEGORY_SEXUALLY_EXPLICIT
    probability: NEGLIGIBLE
  }
  safety_ratings {
    category: HARM_CATEGORY_HATE_SPEECH
    probability: NEGLIGIBLE
  }
  safety_ratings {
    category: HARM_CATEGORY_HARASSMENT
    probability: NEGLIGIBLE
  }
  safety_ratings {
    category: HARM_CATEGORY_DANGEROUS_CONTENT
    probability: NEGLIGIBLE
  }
]
```

[13]:
```python
%%time
response = model.generate_content("What is the meaning of life?", stream=True)
```

CPU times: user 95.9 ms, sys: 8.51 ms, total: 104 ms
Wall time: 8.62 s

[14]:
```python
for chunk in response:
    print(chunk.text)
    print("_"*80)
```

The meaning of life is a deeply personal and philosophical question that has

been pondered by

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 humans for centuries. There is no single, universally accepted answer, as the
meaning of life can vary from person to person and culture to culture. Some
common themes

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 that emerge when considering the meaning of life include:

* **Purpose and Fulfillment:** Finding a sense of purpose and fulfillment in
one's life can be a significant source of meaning. This can involve pursuing
goals, contributing to society, or engaging in activities that bring joy and
satisfaction.
* **Connection and Relationships:**

 Building meaningful connections with others can be a fundamental aspect of the
meaning of life. Relationships with family, friends, loved ones, and even
strangers can bring love, support, and a sense of belonging.
* **Growth and Development:** Continuously growing and developing as a person,
both personally and intellectually, can be a fulfilling and meaningful endeavor.
This includes learning new skills, acquiring knowledge, and working towards
personal improvement.
* **Contribution to the World:** Making a positive impact on the world, however
large or small, can give life meaning. This could involve volunteering,
supporting charitable causes, or simply being a kind and compassionate person.

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* **Experiencing and Enjoying Life:** Simply being present and appreciating the
beauty and wonders of life can be a meaningful pursuit in itself. This includes
engaging in leisure activities, traveling, trying new things, and embracing the
present moment.

Ultimately, the meaning of life is subjective and what it means to one person
may not mean the same to another. The exploration of one's own meaning of life
is a journey that can be both fulfilling and ongoing throughout the course of
one's existence.

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[15]:
```python
try:
    response.text
except Exception as e:
    print(f'{type(e).__name__}:{e}')
```

[16]:
```python
import PIL.Image

img = PIL.Image.open("/content/dogplaying.jpg")
img
```

[16]:

```
[20]: model = genai.GenerativeModel('gemini-1.5-flash')
```

```
[23]: repsonse1 = model.generate_content(img)
      to_markdown(repsonse1.text)
```

[23]:
> This is a cute picture of a Beagle puppy playing fetch. The puppy is in focus and looks happy, and the blurry background is nice. It's a good photo.

```
[26]: response2 = model.generate_content(["Can you write a small story based on this␣
      ↪picture. It should include a description of the photo.",img], stream=True)

      response2.resolve()
```

```
[25]: to_markdown(response2.text)
```

[25]:
> The photo shows a beagle puppy running through a field of green grass. The puppy is holding a red rubber ball in its mouth and has a happy expression on its face. The puppy's tail is wagging and its ears are flopping in the wind. The puppy is running towards the camera, and it is clear that it is enjoying itself.
>
> The puppy's name is Max, and he is a playful and energetic dog. He loves to fetch and play with his toys. Max is a loyal companion and loves to spend time with his family. He is always happy to see them and loves to be petted. Max is a sweet and loving dog, and he brings joy to everyone who meets him.

```
[ ]:
```