



# Hello World with Gemini Pro



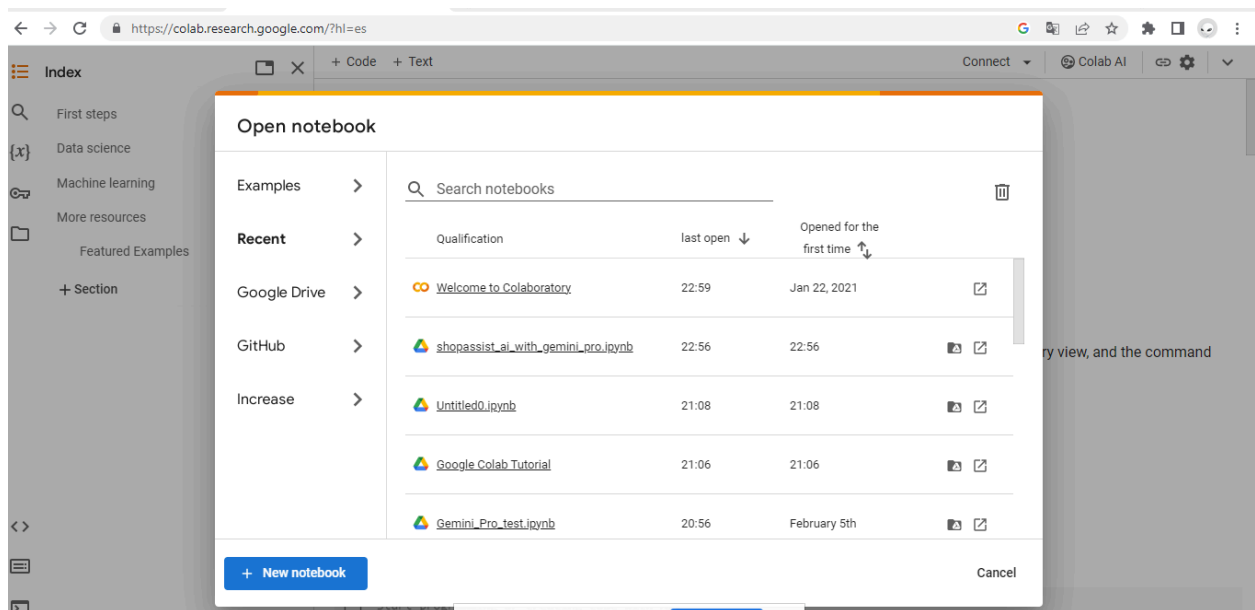
<https://www.youtube.com/watch?v=inN8seMm7UI>



<https://ai.google.dev/docs>

## Google Colab

**Step 1)** Open Google Colab: <https://colab.research.google.com/>



Click on

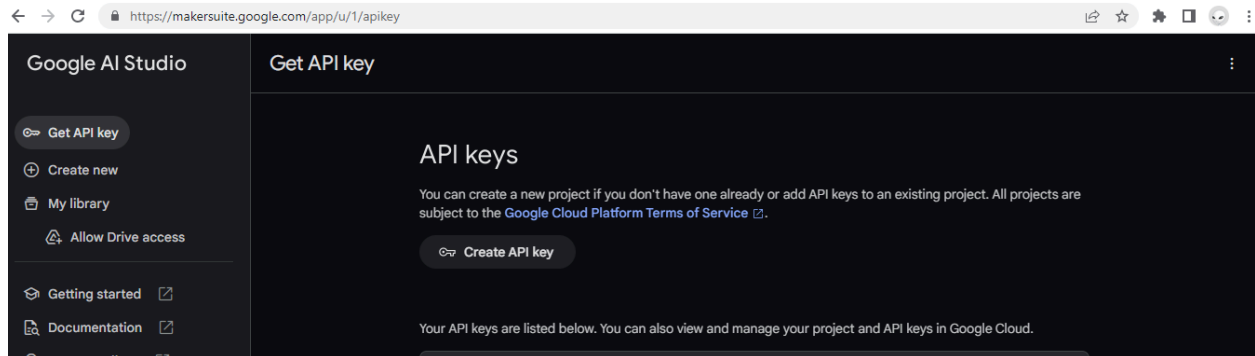
+ New notebook

# Gemini Pro

## Step 1: Create an API key to use Gemini Pro

Visit URL: <https://makersuite.google.com/app/u/1/apikey>

Create API key and copy it



## Step 2: Open Google Colab and Install *google generative ai* dependency

**!pip install google-generativeai**

```
10s !pip install google-generativeai
Requirement already satisfied: google-generativeai in /usr/local/lib/python3.10/dist-packages (0.3.2)
Requirement already satisfied: google-ai-generativelanguage==0.4.0 in /usr/local/lib/python3.10/dist-packages (from google-generativeai) (0.4.0)
Requirement already satisfied: google-auth in /usr/local/lib/python3.10/dist-packages (from google-generativeai) (2.27.0)
Requirement already satisfied: google-api-core in /usr/local/lib/python3.10/dist-packages (from google-generativeai) (2.11.1)
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.10/dist-packages (from google-generativeai) (4.10.0)
Requirement already satisfied: protobuf in /usr/local/lib/python3.10/dist-packages (from google-generativeai) (3.20.3)
Requirement already satisfied: tqdm in /usr/local/lib/python3.10/dist-packages (from google-generativeai) (4.66.2)
Requirement already satisfied: proto-plus<2.0.0dev,>=1.22.3 in /usr/local/lib/python3.10/dist-packages (from google-ai-generativelanguage==0.4.0->google-generativeai) (1.22.3)
Requirement already satisfied: googleapis-common-protos<2.0.dev0,>=1.56.2 in /usr/local/lib/python3.10/dist-packages (from google-api-core->google-generativeai) (1.62.0)
Requirement already satisfied: requests<3.0.0.dev0,>=2.18.0 in /usr/local/lib/python3.10/dist-packages (from google-api-core->google-generativeai) (2.31.0)
Requirement already satisfied: cachetools<6.0,>=2.0.0 in /usr/local/lib/python3.10/dist-packages (from google-auth->google-generativeai) (5.3.3)
Requirement already satisfied: pyasn1-modules<0.2.1 in /usr/local/lib/python3.10/dist-packages (from google-auth->google-generativeai) (0.3.0)
Requirement already satisfied: rsa<5,>=3.1.4 in /usr/local/lib/python3.10/dist-packages (from google-auth->google-generativeai) (4.9)
Requirement already satisfied: grpcio<2.0dev,>=1.33.2 in /usr/local/lib/python3.10/dist-packages (from google-api-core->google-generativeai) (1.62.0)
Requirement already satisfied: grpcio-status<2.0.dev0,>=1.33.2 in /usr/local/lib/python3.10/dist-packages (from google-api-core->google-generativeai) (1.62.0)
Requirement already satisfied: pyasn1<0.6.0,>=0.4.6 in /usr/local/lib/python3.10/dist-packages (from pyasn1-modules=>0.2.1->google-auth->google-generativeai) (0.5.1)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests<3.0.0.dev0,>=2.18.0->google-api-core->google-generativeai) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests<3.0.0.dev0,>=2.18.0->google-api-core->google-generativeai) (3.6)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests<3.0.0.dev0,>=2.18.0->google-api-core->google-generativeai) (2.0.7)
Requirement already satisfied: certifi<2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests<3.0.0.dev0,>=2.18.0->google-api-core->google-generativeai) (2023.7.22)
```

### Step 3: Import Generative AI and Configure Key

```
import google.generativeai as genai

# Configure api_key
genai.configure(api_key="AIzaSyBkZ96Tm3LICKAboAILkKFLFC3LuFMqwlG")

# Listing all the models
for m in genai.list_models():
    print(m.name)
```

models/chat-bison-001  
models/text-bison-001  
models/embedding-gecko-001  
models/gemini-1.0-pro  
models/gemini-1.0-pro-001  
models/gemini-1.0-pro-latest  
models/gemini-1.0-pro-vision-latest  
models/gemini-pro  
models/gemini-pro-vision  
models/embedding-001  
models/aqa

### Step 4: Create Model Instance, Define Prompt and Execute Prompt

```
[21] # Define Model Instance
model = genai.GenerativeModel('gemini-pro')

# Define prompt
prompt = 'Who is the prime minister of India?'

# Execute Prompt
response = model.generate_content(prompt)
print(response.text)
```

Narendra Modi

### Step 5: Homework

Define your new prompt and try to execute it in a new cell

e.g. Who is the president of India?

Thank you

Colab Reference:

[https://github.com/edquestofficial/Gen-AI-Cohort/blob/main/2024/generic/Hello\\_World\\_with\\_Gemini\\_Pro.ipynb](https://github.com/edquestofficial/Gen-AI-Cohort/blob/main/2024/generic/Hello_World_with_Gemini_Pro.ipynb)

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