Building First Gradio Project

```
! pip install gradio
Collecting gradio
  Downloading gradio-5.23.3-py3-none-any.whl.metadata (16 kB)
Collecting aiofiles<24.0,>=22.0 (from gradio)
  Downloading aiofiles-23.2.1-py3-none-any.whl.metadata (9.7 kB)
Requirement already satisfied: anyio<5.0,>=3.0 in
/usr/local/lib/python3.11/dist-packages (from gradio) (4.9.0)
Collecting fastapi<1.0,>=0.115.2 (from gradio)
  Downloading fastapi-0.115.12-py3-none-any.whl.metadata (27 kB)
Collecting ffmpy (from gradio)
  Downloading ffmpy-0.5.0-py3-none-any.whl.metadata (3.0 kB)
Collecting gradio-client==1.8.0 (from gradio)
  Downloading gradio client-1.8.0-py3-none-any.whl.metadata (7.1 kB)
Collecting groovy~=0.1 (from gradio)
  Downloading groovy-0.1.2-py3-none-any.whl.metadata (6.1 kB)
Requirement already satisfied: httpx>=0.24.1 in
/usr/local/lib/python3.11/dist-packages (from gradio) (0.28.1)
Requirement already satisfied: huggingface-hub>=0.28.1 in
/usr/local/lib/python3.11/dist-packages (from gradio) (0.30.1)
Requirement already satisfied: jinja2<4.0 in
/usr/local/lib/python3.11/dist-packages (from gradio) (3.1.6)
Requirement already satisfied: markupsafe<4.0,>=2.0 in
/usr/local/lib/python3.11/dist-packages (from gradio) (3.0.2)
Requirement already satisfied: numpy<3.0,>=1.0 in
/usr/local/lib/python3.11/dist-packages (from gradio) (2.0.2)
Requirement already satisfied: orjson~=3.0 in
/usr/local/lib/python3.11/dist-packages (from gradio) (3.10.16)
Requirement already satisfied: packaging in
/usr/local/lib/python3.11/dist-packages (from gradio) (24.2)
Requirement already satisfied: pandas<3.0,>=1.0 in
/usr/local/lib/python3.11/dist-packages (from gradio) (2.2.2)
Requirement already satisfied: pillow<12.0,>=8.0 in
/usr/local/lib/python3.11/dist-packages (from gradio) (11.1.0)
Requirement already satisfied: pydantic<2.12,>=2.0 in
/usr/local/lib/python3.11/dist-packages (from gradio) (2.11.1)
Collecting pydub (from gradio)
  Downloading pydub-0.25.1-py2.py3-none-any.whl.metadata (1.4 kB)
Collecting python-multipart>=0.0.18 (from gradio)
  Downloading python multipart-0.0.20-py3-none-any.whl.metadata (1.8
Requirement already satisfied: pyyaml<7.0,>=5.0 in
/usr/local/lib/python3.11/dist-packages (from gradio) (6.0.2)
Collecting ruff>=0.9.3 (from gradio)
  Downloading ruff-0.11.4-py3-none-
manylinux 2 17 x86 64.manylinux2014 x86 64.whl.metadata (25 kB)
Collecting safehttpx<0.2.0,>=0.1.6 (from gradio)
```

```
Downloading safehttpx-0.1.6-py3-none-any.whl.metadata (4.2 kB)
Collecting semantic-version~=2.0 (from gradio)
  Downloading semantic version-2.10.0-py2.py3-none-any.whl.metadata
(9.7 \text{ kB})
Collecting starlette<1.0,>=0.40.0 (from gradio)
  Downloading starlette-0.46.1-py3-none-any.whl.metadata (6.2 kB)
Collecting tomlkit<0.14.0,>=0.12.0 (from gradio)
  Downloading tomlkit-0.13.2-py3-none-any.whl.metadata (2.7 kB)
Requirement already satisfied: typer<1.0,>=0.12 in
/usr/local/lib/python3.11/dist-packages (from gradio) (0.15.2)
Requirement already satisfied: typing-extensions~=4.0 in
/usr/local/lib/python3.11/dist-packages (from gradio) (4.13.0)
Collecting uvicorn>=0.14.0 (from gradio)
  Downloading uvicorn-0.34.0-py3-none-any.whl.metadata (6.5 kB)
Requirement already satisfied: fsspec in
/usr/local/lib/python3.11/dist-packages (from gradio-client==1.8.0-
>gradio) (2025.3.2)
Requirement already satisfied: websockets<16.0,>=10.0 in
/usr/local/lib/python3.11/dist-packages (from gradio-client==1.8.0-
>gradio) (15.0.1)
Requirement already satisfied: idna>=2.8 in
/usr/local/lib/python3.11/dist-packages (from anyio<5.0,>=3.0->gradio)
(3.10)
Requirement already satisfied: sniffio>=1.1 in
/usr/local/lib/python3.11/dist-packages (from anyio<5.0,>=3.0->gradio)
(1.3.1)
Requirement already satisfied: certifi in
/usr/local/lib/python3.11/dist-packages (from httpx>=0.24.1->gradio)
(2025.1.31)
Requirement already satisfied: httpcore==1.* in
/usr/local/lib/python3.11/dist-packages (from httpx>=0.24.1->gradio)
(1.0.7)
Requirement already satisfied: h11<0.15,>=0.13 in
/usr/local/lib/python3.11/dist-packages (from httpcore==1.*-
>httpx>=0.24.1->gradio) (0.14.0)
Requirement already satisfied: filelock in
/usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.28.1-
>gradio) (3.18.0)
Requirement already satisfied: requests in
/usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.28.1-
>gradio) (2.32.3)
Requirement already satisfied: tgdm>=4.42.1 in
/usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.28.1-
>gradio) (4.67.1)
Requirement already satisfied: python-dateutil>=2.8.2 in
/usr/local/lib/python3.11/dist-packages (from pandas<3.0,>=1.0-
>gradio) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in
/usr/local/lib/python3.11/dist-packages (from pandas<3.0,>=1.0-
```

```
>gradio) (2025.2)
Requirement already satisfied: tzdata>=2022.7 in
/usr/local/lib/python3.11/dist-packages (from pandas<3.0,>=1.0-
>gradio) (2025.2)
Requirement already satisfied: annotated-types>=0.6.0 in
/usr/local/lib/python3.11/dist-packages (from pydantic<2.12,>=2.0-
>gradio) (0.7.0)
Requirement already satisfied: pydantic-core==2.33.0 in
/usr/local/lib/python3.11/dist-packages (from pydantic<2.12,>=2.0-
>gradio) (2.33.0)
Requirement already satisfied: typing-inspection>=0.4.0 in
/usr/local/lib/python3.11/dist-packages (from pydantic<2.12,>=2.0-
>gradio) (0.4.0)
Requirement already satisfied: click>=8.0.0 in
/usr/local/lib/python3.11/dist-packages (from typer<1.0,>=0.12-
>gradio) (8.1.8)
Requirement already satisfied: shellingham>=1.3.0 in
/usr/local/lib/python3.11/dist-packages (from typer<1.0,>=0.12-
>gradio) (1.5.4)
Requirement already satisfied: rich>=10.11.0 in
/usr/local/lib/python3.11/dist-packages (from typer<1.0,>=0.12-
>gradio) (13.9.4)
Requirement already satisfied: six>=1.5 in
/usr/local/lib/python3.11/dist-packages (from python-dateutil>=2.8.2-
>pandas<3.0,>=1.0->gradio) (1.17.0)
Requirement already satisfied: markdown-it-py>=2.2.0 in
/usr/local/lib/python3.11/dist-packages (from rich>=10.11.0-
>typer<1.0,>=0.12->gradio) (3.0.0)
Requirement already satisfied: pygments<3.0.0,>=2.13.0 in
/usr/local/lib/python3.11/dist-packages (from rich>=10.11.0-
>typer<1.0,>=0.12->gradio) (2.18.0)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.11/dist-packages (from requests->huggingface-
hub>=0.28.1->gradio) (3.4.1)
Requirement already satisfied: urllib3<3,>=1.21.1 in
/usr/local/lib/python3.11/dist-packages (from requests->huggingface-
hub>=0.28.1->gradio) (2.3.0)
Requirement already satisfied: mdurl~=0.1 in
/usr/local/lib/python3.11/dist-packages (from markdown-it-py>=2.2.0-
>rich>=10.11.0->typer<1.0,>=0.12->gradio) (0.1.2)
Downloading gradio-5.23.3-py3-none-any.whl (46.5 MB)
                                       - 46.5/46.5 MB 13.0 MB/s eta
0:00:00
                                       - 322.2/322.2 kB 10.3 MB/s eta
0:00:00
                                      -- 95.2/95.2 kB 6.6 MB/s eta
0:00:00
ultipart-0.0.20-py3-none-any.whl (24 kB)
Downloading ruff-0.11.4-py3-none-
```

```
manylinux 2 17 x86 64.manylinux2014 x86 64.whl (11.3 MB)
                                       - 11.3/11.3 MB 20.4 MB/s eta
0:00:00
antic version-2.10.0-py2.py3-none-any.whl (15 kB)
Downloading starlette-0.46.1-py3-none-any.whl (71 kB)
                                       - 72.0/72.0 kB 4.5 MB/s eta
0:00:00
lkit-0.13.2-py3-none-any.whl (37 kB)
Downloading uvicorn-0.34.0-py3-none-any.whl (62 kB)
                                     --- 62.3/62.3 kB 3.6 MB/s eta
0:00:00
py-0.5.0-py3-none-any.whl (6.0 kB)
Downloading pydub-0.25.1-py2.py3-none-any.whl (32 kB)
Installing collected packages: pydub, uvicorn, tomlkit, semantic-
version, ruff, python-multipart, groovy, ffmpy, aiofiles, starlette,
safehttpx, gradio-client, fastapi, gradio
Successfully installed aiofiles-23.2.1 fastapi-0.115.12 ffmpy-0.5.0
gradio-5.23.3 gradio-client-1.8.0 groovy-0.1.2 pydub-0.25.1 python-
multipart-0.0.20 ruff-0.11.4 safehttpx-0.1.6 semantic-version-2.10.0
starlette-0.46.1 tomlkit-0.13.2 uvicorn-0.34.0
import gradio as gr
def hello world(name):
  return "Hello..." + name + "!!"
hello world("Agib")
{"type": "string"}
interface=gr.Interface(fn=hello world,inputs="text",outputs="text")
interface.launch()
Running Gradio in a Colab notebook requires sharing enabled.
Automatically setting `share=True` (you can turn this off by setting
`share=False` in `launch()` explicitly).
Colab notebook detected. To show errors in colab notebook, set
debug=True in launch()
* Running on public URL: https://dfd887db0af89a8442.gradio.live
This share link expires in 72 hours. For free permanent hosting and
GPU upgrades, run `gradio deploy` from the terminal in the working
directory to deploy to Hugging Face Spaces
(https://huggingface.co/spaces)
<IPython.core.display.HTML object>
```

Customizing Gradio Components

Image Applications

```
interface=qr.Interface(fn=hello world,inputs=qr.Textbox(lines=10,
placeholder="Enter your input here...."),outputs="text")
interface.launch()
Running Gradio in a Colab notebook requires sharing enabled.
Automatically setting `share=True` (you can turn this off by setting
`share=False` in `launch()` explicitly).
Colab notebook detected. To show errors in colab notebook, set
debug=True in launch()
* Running on public URL: https://f5ad0b3372f0d17632.gradio.live
This share link expires in 72 hours. For free permanent hosting and
GPU upgrades, run `gradio deploy` from the terminal in the working
directory to deploy to Hugging Face Spaces
(https://huggingface.co/spaces)
<IPvthon.core.display.HTML object>
import numpy as np
def sepia(input img):
  sepia_filter=np.array([
    [.393, .769, .189],
    [.349, .686, .168],
   [.272, .534, .131]
  sepia img=input img.dot(sepia filter.T)
  sepia img/=sepia img.max()
  return sepia img
iface=gr.Interface(sepia, gr.Image(type="numpy", image mode="RGB"),
"image")
iface.launch()
Running Gradio in a Colab notebook requires sharing enabled.
Automatically setting `share=True` (you can turn this off by setting
`share=False` in `launch()` explicitly).
Colab notebook detected. To show errors in colab notebook, set
debug=True in launch()
* Running on public URL: https://c28a15ab2b4d8d9a44.gradio.live
This share link expires in 72 hours. For free permanent hosting and
GPU upgrades, run `gradio deploy` from the terminal in the working
```

```
directory to deploy to Hugging Face Spaces
(https://huggingface.co/spaces)
<IPython.core.display.HTML object>
```

Working with tabular data

```
import pandas as pd
import matplotlib.pyplot as plt
import gradio as gr
import numpy as np
def sales projections(employee data):
    sales data = employee data.iloc[:, 1:4].astype("int").to numpy()
    regression values = np.apply along axis(lambda row:
np.array(np.poly1d(np.polyfit([0, 1, 2], row, 2))), 0, sales data)
    projected months = np.repeat(np.expand dims(np.arange(3, 12), 0),
len(sales data), axis=0) # Use np.arange instead of np.arrange
    projected_values = np.array([
        month * month * regression[0] + month * regression[1] +
regression[2]
        for month, regression in zip(projected months,
regression values)])
    plt.plot(projected values.T)
    plt.legend(employee data["Name"])
    return employee data, plt.gcf(), regression values
# Create the DataFrame outside of gr.Interface and pass it as the
value argument
df = pd.DataFrame(data=[["Jon", 12, 14, 18], ["Alice", 14, 17, 2],
["Sana", 8, 9.5, 12]],
                  columns=["Name", "Jan Sales", "Feb Sales", "Mar
Sales"1)
iface = gr.Interface(sales projections,
                    gr.Dataframe(value=df, # Pass the DataFrame using
the 'value' argument
                                  headers=["Name", "Jan Sales", "Feb
Sales", "Mar Sales"]),
                    ["dataframe", "plot", "numpy"],
                    description="Enter sales figures for employees to
predict sales trajectory over year.")
iface.launch()
Running Gradio in a Colab notebook requires sharing enabled.
Automatically setting `share=True` (you can turn this off by setting
`share=False` in `launch()` explicitly).
```

```
Colab notebook detected. To show errors in colab notebook, set debug=True in launch()

* Running on public URL: https://45aaf6d65e5e5e3b14.gradio.live

This share link expires in 72 hours. For free permanent hosting and GPU upgrades, run `gradio deploy` from the terminal in the working directory to deploy to Hugging Face Spaces (https://huggingface.co/spaces)

<IPython.core.display.HTML object>
```

Gradio Multiple Inputs

```
def bmi(name, height, weight):
  bmi val=weight/(height**2)
  result emoticon="⊕" if bmi val<30 else "⊕"
  return f"{name} has a BMI of {round(bmi val,2)} and the result will
make you: {result emoticon}"
bmi("Aqib", 1.2, 80)
{"type": "string"}
interface = gr.Interface(fn=bmi, inputs=["text",
gr.Slider(0,200, label="Height in Meters"),
gr.Slider(0,100,label="Height in Kg")], outputs="text")
interface.launch()
Running Gradio in a Colab notebook requires sharing enabled.
Automatically setting `share=True` (you can turn this off by setting
`share=False` in `launch()` explicitly).
Colab notebook detected. To show errors in colab notebook, set
debug=True in launch()
* Running on public URL: https://lllcb43e677c9c008f.gradio.live
This share link expires in 72 hours. For free permanent hosting and
GPU upgrades, run `gradio deploy` from the terminal in the working
directory to deploy to Hugging Face Spaces
(https://huggingface.co/spaces)
<IPython.core.display.HTML object>
```

Debuggin and Flagging

```
def bmi(name, height, weight, feeling):
   bmi_val=weight/(height**2)
```

```
result_emoticon="⊕" if bmi_val<30 else "⊕"
  output str = f"Hello {name}, your BMI is: {round(bmi val,2)}"
  txt = "Happy" if feeling else "Sad"
  return (output str, result emoticon, txt)
interface = gr.Interface(fn=bmi,
                          inputs=[gr.Textbox(lines=1, label="Name"),
gr.Slider(1,200,label="Height in Meters"),
gr.Slider(1,100,label="Weight in Kg"), gr.Checkbox(label="You are
feeling all good")],
                          outputs=[gr.Textbox(lines=1, label="BMI
Result"), gr.Textbox(lines=1, label="Result
Emotion"),gr.Textbox(lines=1, label="How you are feeling now?")])
interface.launch(debug=True)
Running Gradio in a Colab notebook requires sharing enabled.
Automatically setting `share=True` (you can turn this off by setting
`share=False` in `launch()` explicitly).
Colab notebook detected. This cell will run indefinitely so that you
can see errors and logs. To turn off, set debug=False in launch().
* Running on public URL: https://827882fc701f7b346d.gradio.live
This share link expires in 72 hours. For free permanent hosting and
GPU upgrades, run `gradio deploy` from the terminal in the working
directory to deploy to Hugging Face Spaces
(https://huggingface.co/spaces)
<IPython.core.display.HTML object>
Using existing dataset file at: .gradio/flagged/dataset1.csv
Keyboard interruption in main thread... closing server.
Killing tunnel 127.0.0.1:7868 <>
https://827882fc701f7b346d.gradio.live
pd.read csv(".gradio/flagged/dataset1.csv")
{"summary":"{\n \"name\": \"pd\",\n \"rows\": 2,\n \"fields\": [\n \"name\"] }
{\n \"column\": \"Name\",\n \"properties\": {\n
\"dtype\": \"string\",\n
                                \"num unique values\": 2,\n
                         \"Ashiq\",\n
\"samples\": [\n
                                                  \"Aqib\"\n
                                                                    ],\n
\"semantic type\": \"\",\n \"description\": \"\"\n
                                                                 }\
            {\n \"column\": \"Height in Meters\",\n
     },\n
\"properties\": {\n \"dtype\": \"number\",\n \0,\n \"min\": 1,\n \"max\": 1,\n \"num_unique_values\": 1,\n \"samples\": [\n
                                                             \"std\":
                                                               1\n
],\n \"semantic_type\": \"\",\n \"description\": \"\"\n
}\n     },\n     {\n          \"column\": \"Weight in Kg\",\n          \"dtype\": \"number\",\n
                                                             \"std\":
```

```
19.16259377015544,\n \"min\": 22.9,\n \"max\": 50.0,\n
\"num unique values\": 2,\n \"samples\": [\n
                                                       22.9\n
          \"semantic_type\": \"\",\n
\"description\": \"\"\n
],\n
}\n },\n {\n \"column\": \"You are feeling all good\",\n
\"properties\": {\n \"dtype\": \"boolean\",\n
\"num_unique_values\": 2,\n \"samples\": [\n
          \"semantic_type\": \"\",\n \"description\": \"\"\n
\"num_unique_values\": 2,\n \"samples\": [\n
Ashiq, your BMI is: 22.9\"\n ],\n \"sem
                                                      \"Hello
                                       \"semantic_type\":
            \"description\": \"\"\n
\"\",\n
                                       }\n },\n {\n
\"column\": \"Result Emotion\",\n \"properties\": {\n
\"dtype\": \"string\",\n \"num_unique_values\": 2,\n
\"samples": [\n \"\ud83d\\overline{u}de0a\"\n ],\n
\"semantic type\": \"\",\n \"description\": \"\"\n
n },\n {\n \"column\": \"How you are feeling now?\",\n
\"properties\": {\n \"dtype\": \"string\",\n
\"num_unique_values\": 2,\n
                              \"samples\": [\n
\"Happy\"\n ],\n \"semantic_type\": \"\",\n
n \"num_unique_values\": 2,\n \"samples\": \"2025-04-05 16:25:22.666752\"\n ],\n
[\n
\"semantic type\": \"\",\n \"description\": \"\"\n
                                                        }\
    }\n ]\n}","type":"dataframe"}
```

Improving UI+UX theme

```
interface = gr.Interface(fn=bmi,
                         inputs=[gr.Textbox(lines=1, label="Name"),
gr.Slider(1,200,label="Height in Meters"),
gr.Slider(1,100,label="Weight in Kg"), gr.Checkbox(label="Are you
feeling all good?")],
                         outputs=[gr.Textbox(lines=1, label="BMI
Result"), gr.Textbox(lines=1, label="Result")
Emotion"),gr.Textbox(lines=1, label="How you are feeling now?")],
                         examples=[['Aqib', 1.2, 50, True],
                                    ['Sakib',2,80,False],
                                    ['Rakib', 1.5, 70, True]],
                        # live=True,
                         flagging_options=["Yes","No","Maybe"],
                         theme="huggingface"
interface.launch(debug=True, share=True)
/usr/local/lib/python3.11/dist-packages/huggingface hub/utils/
auth.py:94: UserWarning:
The secret `HF TOKEN` does not exist in your Colab secrets.
```

```
To authenticate with the Hugging Face Hub, create a token in your
settings tab (https://huggingface.co/settings/tokens), set it as
secret in your Google Colab and restart your session.
You will be able to reuse this secret in all of your notebooks.
Please note that authentication is recommended but still optional to
access public models or datasets.
  warnings.warn(
/usr/local/lib/python3.11/dist-packages/gradio/blocks.py:1115:
UserWarning: Cannot load huggingface. Caught Exception: 404 Client
Error: Not Found for url:
https://huggingface.co/api/spaces/huggingface (Request ID: Root=1-
67f15816-1b6b677a77ba760b41218429;b0c719f6-316b-4f14-980f-
92ce57696241)
Sorry, we can't find the page you are looking for.
 warnings.warn(f"Cannot load {theme}. Caught Exception: {str(e)}")
Colab notebook detected. This cell will run indefinitely so that you
can see errors and logs. To turn off, set debug=False in launch().
* Running on public URL: https://dcb5d068f056da6d97.gradio.live
This share link expires in 72 hours. For free permanent hosting and
GPU upgrades, run `gradio deploy` from the terminal in the working
directory to deploy to Hugging Face Spaces
(https://huggingface.co/spaces)
<IPython.core.display.HTML object>
Keyboard interruption in main thread... closing server.
Killing tunnel 127.0.0.1:7865 <>
https://dcb5d068f056da6d97.gradio.live
```

Chatbot Creation

```
import random
import gradio as gr

def chat(message, history):
    history = history or [] # Initialize history as an empty list if
None
    if message.startswith("How many"):
        response = random.choice(["1", "2", "3", "4", "5"])
    elif message.startswith("How"):
        response = random.choice(["Great", "Good", "Okay", "Bad"])
    elif message.startswith("Where"):
        response = random.choice(["Here", "There", "Somewhere"])
    else:
        response = "I don't know"
```

```
history result = history + [[message, response]] # Update history
    return history, history result # Return history for both outputs
iface = gr.Interface(
    fn=chat.
    inputs=[gr.Textbox(lines=1, label="Ask your question here ∏",
placeholder="Ask any of this 3 question: How many are you replying
now? or How are you? or Where are you?"), "state"], # "state" is used
for the chat history
    outputs=["state", "chatbot"], # "chatbot" to display the
conversation
   allow flagging="never"
iface.launch(debug=True)
/usr/local/lib/python3.11/dist-packages/gradio/components/base.py:423:
UserWarning: You have not specified a value for the `type` parameter.
Defaulting to the 'tuples' format for chatbot messages, but this is
deprecated and will be removed in a future version of Gradio. Please
set type='messages' instead, which uses openai-style dictionaries with
'role' and 'content' keys.
  obj = utils.component or layout class(cls name)(render=render)
/usr/local/lib/python3.11/dist-packages/gradio/interface.py:415:
UserWarning: The `allow_flagging` parameter in `Interface` is
deprecated.Use `flagging_mode` instead.
 warnings.warn(
Running Gradio in a Colab notebook requires sharing enabled.
Automatically setting `share=True` (you can turn this off by setting
`share=False` in `launch()` explicitly).
Colab notebook detected. This cell will run indefinitely so that you
can see errors and logs. To turn off, set debug=False in launch().
* Running on public URL: https://360b6201541caf905a.gradio.live
This share link expires in 72 hours. For free permanent hosting and
GPU upgrades, run `gradio deploy` from the terminal in the working
directory to deploy to Hugging Face Spaces
(https://huggingface.co/spaces)
<IPython.core.display.HTML object>
Keyboard interruption in main thread... closing server.
Killing tunnel 127.0.0.1:7868 <>
https://360b6201541caf905a.gradio.live
```

Gradio Sharing+Auth

```
!pip install gradio client
Requirement already satisfied: gradio client in
/usr/local/lib/python3.11/dist-packages (1.8.0)
Requirement already satisfied: fsspec in
/usr/local/lib/python3.11/dist-packages (from gradio client)
(2025.3.2)
Requirement already satisfied: httpx>=0.24.1 in
/usr/local/lib/python3.11/dist-packages (from gradio client) (0.28.1)
Requirement already satisfied: huggingface-hub>=0.19.3 in
/usr/local/lib/python3.11/dist-packages (from gradio client) (0.30.1)
Requirement already satisfied: packaging in
/usr/local/lib/python3.11/dist-packages (from gradio client) (24.2)
Requirement already satisfied: typing-extensions~=4.0 in
/usr/local/lib/python3.11/dist-packages (from gradio client) (4.13.0)
Requirement already satisfied: websockets<16.0,>=10.0 in
/usr/local/lib/python3.11/dist-packages (from gradio client) (15.0.1)
Requirement already satisfied: anyio in
/usr/local/lib/python3.11/dist-packages (from httpx>=0.24.1-
>gradio client) (4.9.0)
Requirement already satisfied: certifi in
/usr/local/lib/python3.11/dist-packages (from httpx>=0.24.1-
>gradio client) (2025.1.31)
Requirement already satisfied: httpcore==1.* in
/usr/local/lib/python3.11/dist-packages (from httpx>=0.24.1-
>gradio_client) (1.0.7)
Requirement already satisfied: idna in /usr/local/lib/python3.11/dist-
packages (from httpx>=0.24.1->gradio client) (3.10)
Requirement already satisfied: h11<0.15,>=0.13 in
/usr/local/lib/python3.11/dist-packages (from httpcore==1.*-
>httpx>=0.24.1->gradio client) (0.14.0)
Requirement already satisfied: filelock in
/usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.19.3-
>gradio client) (3.18.0)
Requirement already satisfied: pyyaml>=5.1 in
/usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.19.3-
>gradio client) (6.0.2)
Requirement already satisfied: requests in
/usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.19.3-
>gradio_client) (2.32.3)
Requirement already satisfied: tgdm>=4.42.1 in
/usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.19.3-
>gradio client) (4.67.1)
Requirement already satisfied: sniffio>=1.1 in
/usr/local/lib/python3.11/dist-packages (from anyio->httpx>=0.24.1-
>gradio client) (1.3.1)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.11/dist-packages (from requests->huggingface-
```

```
hub>=0.19.3->gradio client) (3.4.1)
Requirement already satisfied: urllib3<3,>=1.21.1 in
/usr/local/lib/python3.11/dist-packages (from requests->huggingface-
hub>=0.19.3->gradio client) (2.3.0)
interface = gr.Interface(fn=bmi,
                         inputs=[gr.Textbox(lines=1, label="Name"),
gr.Slider(1,200,label="Height in Meters"),
gr.Slider(1,100,label="Weight in Kg"), gr.Checkbox(label="Are you
feeling all good?")],
                         outputs=[gr.Textbox(lines=1, label="BMI
Result"),gr.Textbox(lines=1, label="Result")
Emotion"),gr.Textbox(lines=1, label="How you are feeling now?")],
                         examples=[['Aqib', 1.2, 50, True],
                                   ['Sakib',2,80,False],
                                   ['Rakib',1.5,70,True]],
                        # live=True,
                         flagging_options=["Yes","No","Maybe"],
                         theme="huggingface"
#Launch interface with share=True parameter
interface.launch(share=True)
/usr/local/lib/python3.11/dist-packages/gradio/blocks.py:1115:
UserWarning: Cannot load huggingface. Caught Exception: 404 Client
Error: Not Found for url:
https://huggingface.co/api/spaces/huggingface (Request ID: Root=1-
67f15840-3435b5fe52f943b5388b713c;78f9ad70-80fa-4cc1-913d-
a12e2c9d9176)
Sorry, we can't find the page you are looking for.
 warnings.warn(f"Cannot load {theme}. Caught Exception: {str(e)}")
Colab notebook detected. To show errors in colab notebook, set
debug=True in launch()
* Running on public URL: https://a84218222122a7bb26.gradio.live
This share link expires in 72 hours. For free permanent hosting and
GPU upgrades, run `gradio deploy` from the terminal in the working
directory to deploy to Hugging Face Spaces
(https://huggingface.co/spaces)
<IPython.core.display.HTML object>
from gradio client import Client
client = Client("https://a84218222122a7bb26.gradio.live/")
result = client.predict(
           name="Hello!!",
```

```
height=1,
           weight=1,
           feeling=False,
           api name="/predict"
print(result)
Loaded as API: https://a84218222122a7bb26.gradio.live/ <
('Hello Hello!!, your BMI is: 1.0', '\cong', 'Sad')
interface.launch(auth=("kutub", "kutub6789"))
Running Gradio in a Colab notebook requires sharing enabled.
Automatically setting `share=True` (you can turn this off by setting
`share=False` in `launch()` explicitly).
Colab notebook detected. To show errors in colab notebook, set
debug=True in launch()
* Running on public URL: https://a84218222122a7bb26.gradio.live
This share link expires in 72 hours. For free permanent hosting and
GPU upgrades, run `gradio deploy` from the terminal in the working
directory to deploy to Hugging Face Spaces
(https://huggingface.co/spaces)
<IPython.core.display.HTML object>
```

Deploying a DL Gradio App with © Spaces

```
!pip install transformers
Requirement already satisfied: transformers in
/usr/local/lib/python3.11/dist-packages (4.50.3)
Requirement already satisfied: filelock in
/usr/local/lib/python3.11/dist-packages (from transformers) (3.18.0)
Requirement already satisfied: huggingface-hub<1.0,>=0.26.0 in
/usr/local/lib/python3.11/dist-packages (from transformers) (0.30.1)
Requirement already satisfied: numpy>=1.17 in
/usr/local/lib/python3.11/dist-packages (from transformers) (2.0.2)
Requirement already satisfied: packaging>=20.0 in
/usr/local/lib/python3.11/dist-packages (from transformers) (24.2)
Requirement already satisfied: pyyaml>=5.1 in
/usr/local/lib/python3.11/dist-packages (from transformers) (6.0.2)
Requirement already satisfied: regex!=2019.12.17 in
/usr/local/lib/python3.11/dist-packages (from transformers)
(2024.11.6)
Requirement already satisfied: requests in
/usr/local/lib/python3.11/dist-packages (from transformers) (2.32.3)
Requirement already satisfied: tokenizers<0.22,>=0.21 in
```

```
/usr/local/lib/python3.11/dist-packages (from transformers) (0.21.1)
Requirement already satisfied: safetensors>=0.4.3 in
/usr/local/lib/python3.11/dist-packages (from transformers) (0.5.3)
Requirement already satisfied: tqdm>=4.27 in
/usr/local/lib/python3.11/dist-packages (from transformers) (4.67.1)
Requirement already satisfied: fsspec>=2023.5.0 in
/usr/local/lib/python3.11/dist-packages (from huggingface-
hub<1.0,>=0.26.0->transformers) (2025.3.2)
Requirement already satisfied: typing-extensions>=3.7.4.3 in
/usr/local/lib/python3.11/dist-packages (from huggingface-
hub<1.0,>=0.26.0->transformers) (4.13.0)
Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.11/dist-packages (from requests->transformers)
Requirement already satisfied: idna<4,>=2.5 in
/usr/local/lib/python3.11/dist-packages (from requests->transformers)
Requirement already satisfied: urllib3<3,>=1.21.1 in
/usr/local/lib/python3.11/dist-packages (from requests->transformers)
(2.3.0)
Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.11/dist-packages (from requests->transformers)
(2025.1.31)
from transformers import pipeline
sentiment = pipeline("sentiment-analysis")
No model was supplied, defaulted to distilbert/distilbert-base-
uncased-finetuned-sst-2-english and revision 714eb0f
(https://huggingface.co/distilbert/distilbert-base-uncased-finetuned-
sst-2-english).
Using a pipeline without specifying a model name and revision in
production is not recommended.
{"model id":"2d1e7b165ef94724b3644d25abf81b0a","version major":2,"vers
ion minor":0}
Xet Storage is enabled for this repo, but the 'hf xet' package is not
installed. Falling back to regular HTTP download. For better
performance, install the package with: `pip install
huggingface_hub[hf_xet]` or `pip install hf_xet`
WARNING: huggingface hub.file download: Xet Storage is enabled for this
repo, but the 'hf xet' package is not installed. Falling back to
regular HTTP download. For better performance, install the package
with: `pip install huggingface hub[hf xet]` or `pip install hf xet`
{"model id":"f1c008521e0c4438b4c0e30fbe92f70d","version major":2,"vers
ion minor":0}
```

```
{"model id": "6ecec83ec4944df1ba26798db5dbda62", "version major": 2, "vers
ion minor":0}
{"model id": "efca90b8c8ef41f692a16e25960f5ede", "version major": 2, "vers
ion minor":0}
Device set to use cpu
def get sentiment(input text):
  return sentiment(input text)
result=get sentiment("The boy is very good")
result
[{'label': 'POSITIVE', 'score': 0.9998672008514404}]
iface = gr.Interface(fn=get sentiment,
                     inputs=[gr.Textbox(lines=1, label="Write the
sentence")],
                     outputs=[gr.Textbox(lines=1, label="Understand
the Sentiment Result")],
                     title="Sentiment Analysis")
iface.launch()
Running Gradio in a Colab notebook requires sharing enabled.
Automatically setting `share=True` (you can turn this off by setting
`share=False` in `launch()` explicitly).
Colab notebook detected. To show errors in colab notebook, set
debug=True in launch()
* Running on public URL: https://aade4cc32219f25282.gradio.live
This share link expires in 72 hours. For free permanent hosting and
GPU upgrades, run `gradio deploy` from the terminal in the working
directory to deploy to Hugging Face Spaces
(https://huggingface.co/spaces)
<IPython.core.display.HTML object>
```