

In [1]: !pip install gradio

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Requirement already satisfied: gradio in /usr/local/lib/python3.12/dist-package s (5.44.1)
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Requirement already satisfied: aiofiles<25.0,>=22.0 in /usr/local/lib/python3.1 2/dist-packages (from gradio) (24.1.0)

Requirement already satisfied: anyio<5.0,>=3.0 in /usr/local/lib/python3.12/dist-packages (from gradio) (4.10.0)

Requirement already satisfied: brotli>=1.1.0 in /usr/local/lib/python3.12/dist-packages (from gradio) (1.1.0)

Requirement already satisfied: fastapi<1.0,>=0.115.2 in /usr/local/lib/python 3.12/dist-packages (from gradio) (0.116.1)

Requirement already satisfied: ffmpy in /usr/local/lib/python3.12/dist-packages (from gradio) (0.6.1)

Requirement already satisfied: gradio-client==1.12.1 in /usr/local/lib/python 3.12/dist-packages (from gradio) (1.12.1)

Requirement already satisfied: $groovy \approx 0.1$ in /usr/local/lib/python3.12/dist-packages (from gradio) (0.1.2)

Requirement already satisfied: httpx<1.0,>=0.24.1 in /usr/local/lib/python3.12/dist-packages (from gradio) (0.28.1)

Requirement already satisfied: huggingface-hub<1.0,>=0.33.5 in /usr/local/lib/p ython3.12/dist-packages (from gradio) (0.34.4)

Requirement already satisfied: jinja2<4.0 in /usr/local/lib/python3.12/dist-pac kages (from gradio) (3.1.6)

Requirement already satisfied: markupsafe<4.0,>=2.0 in /usr/local/lib/python3.1 2/dist-packages (from gradio) (3.0.2)

Requirement already satisfied: numpy<3.0,>=1.0 in /usr/local/lib/python3.12/dist-packages (from gradio) (2.0.2)

Requirement already satisfied: orjson~=3.0 in /usr/local/lib/python3.12/dist-pa ckages (from gradio) (3.11.3)

Requirement already satisfied: packaging in /usr/local/lib/python3.12/dist-pack ages (from gradio) (25.0)

Requirement already satisfied: pandas<3.0,>=1.0 in /usr/local/lib/python3.12/dist-packages (from gradio) (2.2.2)

Requirement already satisfied: pillow<12.0,>=8.0 in /usr/local/lib/python3.12/d ist-packages (from gradio) (11.3.0)

Requirement already satisfied: pydantic<2.12,>=2.0 in /usr/local/lib/python3.1 2/dist-packages (from gradio) (2.11.7)

Requirement already satisfied: pydub in /usr/local/lib/python3.12/dist-packages (from gradio) (0.25.1)

Requirement already satisfied: python-multipart>=0.0.18 in /usr/local/lib/pytho n3.12/dist-packages (from gradio) (0.0.20)

Requirement already satisfied: pyyaml<7.0,>=5.0 in /usr/local/lib/python3.12/di st-packages (from gradio) (6.0.2)

Requirement already satisfied: ruff>=0.9.3 in /usr/local/lib/python3.12/dist-pa ckages (from gradio) (0.12.11)

Requirement already satisfied: safehttpx<0.2.0,>=0.1.6 in /usr/local/lib/python 3.12/dist-packages (from gradio) (0.1.6)

Requirement already satisfied: semantic-version~=2.0 in /usr/local/lib/python 3.12/dist-packages (from gradio) (2.10.0)

Requirement already satisfied: starlette<1.0,>=0.40.0 in /usr/local/lib/python 3.12/dist-packages (from gradio) (0.47.3)

Requirement already satisfied: tomlkit<0.14.0,>=0.12.0 in /usr/local/lib/python 3.12/dist-packages (from gradio) (0.13.3)

Requirement already satisfied: typer<1.0,>=0.12 in /usr/local/lib/python3.12/di st-packages (from gradio) (0.17.3)

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Requirement already satisfied: typing-extensions~=4.0 in /usr/local/lib/python
3.12/dist-packages (from gradio) (4.15.0)
Requirement already satisfied: uvicorn>=0.14.0 in /usr/local/lib/python3.12/dis
t-packages (from gradio) (0.35.0)
Requirement already satisfied: fsspec in /usr/local/lib/python3.12/dist-package
s (from gradio-client==1.12.1->gradio) (2025.3.0)
Requirement already satisfied: websockets<16.0,>=10.0 in /usr/local/lib/python
3.12/dist-packages (from gradio-client==1.12.1->gradio) (15.0.1)
Requirement already satisfied: idna>=2.8 in /usr/local/lib/python3.12/dist-pack
ages (from anyio<5.0,>=3.0->gradio) (3.10)
Requirement already satisfied: sniffio>=1.1 in /usr/local/lib/python3.12/dist-p
ackages (from anyio<5.0,>=3.0->gradio) (1.3.1)
Requirement already satisfied: certifi in /usr/local/lib/python3.12/dist-packag
es (from httpx<1.0,>=0.24.1->gradio) (2025.8.3)
Requirement already satisfied: httpcore==1.* in /usr/local/lib/python3.12/dist-
packages (from httpx<1.0,>=0.24.1->gradio) (1.0.9)
Requirement already satisfied: h11>=0.16 in /usr/local/lib/python3.12/dist-pack
ages (from httpcore==1.*->httpx<1.0,>=0.24.1->gradio) (0.16.0)
Requirement already satisfied: filelock in /usr/local/lib/python3.12/dist-packa
ges (from huggingface-hub<1.0,>=0.33.5->gradio) (3.19.1)
Requirement already satisfied: requests in /usr/local/lib/python3.12/dist-packa
ges (from huggingface-hub<1.0,>=0.33.5->gradio) (2.32.4)
Requirement already satisfied: tgdm>=4.42.1 in /usr/local/lib/python3.12/dist-p
ackages (from huggingface-hub<1.0,>=0.33.5->gradio) (4.67.1)
Requirement already satisfied: hf-xet<2.0.0,>=1.1.3 in /usr/local/lib/python3.1
2/dist-packages (from huggingface-hub<1.0,>=0.33.5->gradio) (1.1.9)
Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python
3.12/dist-packages (from pandas<3.0,>=1.0->gradio) (2.9.0.post0)
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.12/dist-p
ackages (from pandas<3.0,>=1.0->gradio) (2025.2)
Requirement already satisfied: tzdata>=2022.7 in /usr/local/lib/python3.12/dis
t-packages (from pandas<3.0,>=1.0->gradio) (2025.2)
Requirement already satisfied: annotated-types>=0.6.0 in /usr/local/lib/python
3.12/dist-packages (from pydantic<2.12,>=2.0->gradio) (0.7.0)
Requirement already satisfied: pydantic-core==2.33.2 in /usr/local/lib/python
3.12/dist-packages (from pydantic<2.12,>=2.0->gradio) (2.33.2)
Requirement already satisfied: typing-inspection>=0.4.0 in /usr/local/lib/pytho
n3.12/dist-packages (from pydantic<2.12,>=2.0->gradio) (0.4.1)
Requirement already satisfied: click>=8.0.0 in /usr/local/lib/python3.12/dist-p
ackages (from typer<1.0,>=0.12->gradio) (8.2.1)
Requirement already satisfied: shellingham>=1.3.0 in /usr/local/lib/python3.12/
dist-packages (from typer<1.0,>=0.12->gradio) (1.5.4)
Requirement already satisfied: rich>=10.11.0 in /usr/local/lib/python3.12/dist-
packages (from typer<1.0,>=0.12->gradio) (13.9.4)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.12/dist-packa
ges (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/python
3.12/dist-packages (from rich>=10.11.0->typer<1.0,>=0.12->gradio) (4.0.0)
Requirement already satisfied: pygments<3.0.0,>=2.13.0 in /usr/local/lib/python
3.12/dist-packages (from rich>=10.11.0->typer<1.0,>=0.12->gradio) (2.19.2)
Requirement already satisfied: charset normalizer<4,>=2 in /usr/local/lib/pytho
n3.12/dist-packages (from requests->huggingface-hub<1.0,>=0.33.5->gradio)
(3.4.3)
```

Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.12/

dist-packages (from requests->huggingface-hub<1.0,>=0.33.5->gradio) (2.5.0) Requirement already satisfied: mdurl \sim =0.1 in /usr/local/lib/python3.12/dist-packages (from markdown-it-py>=2.2.0->rich>=10.11.0->typer<1.0,>=0.12->gradio) (0.1.2)

```
In [2]: import gradio as gr
        import pandas as pd
        import matplotlib.pyplot as plt
        # Sample data
        data = {
            "Month": ["Jan", "Feb", "Mar", "Apr", "May", "Jun"],
            "Sales": [10000, 12000, 15000, 13000, 17000, 16000],
            "Profit": [2000, 3000, 4000, 2500, 3500, 3000]
        df = pd.DataFrame(data)
        # Function to return selected plot
        def generate plot(plot type):
            fig = plt.figure(figsize=(8, 5))
            if plot type == "Line Plot":
                plt.plot(df['Month'], df['Sales'], color='blue', marker='o', label='Sa
                plt.title('Sales Trend Over Months')
                plt.xlabel('Month')
                plt.ylabel('Sales ($)')
                plt.grid(True)
                plt.legend()
            elif plot type == "Stacked Bar Chart":
                fig.set size inches(10, 6)
                width = 0.3
                plt.bar(df['Month'], df['Sales'], width=width, label='Sales', color='s
                plt.bar(df['Month'], df['Profit'], width=width, label='Profit', color=
                plt.title('Sales and Profit Comparison by Month')
                plt.xlabel('Month')
                plt.ylabel('Amount ($)')
                plt.legend()
            elif plot type == "Pie Chart":
                fig.set size inches(7, 7)
                plt.pie(df['Profit'], labels=df['Month'], autopct='%1.1f%%', startangl
                plt.title('Profit Distribution by Month')
            elif plot type == "Scatter Plot":
                plt.scatter(df['Sales'], df['Profit'], color='green', s=100, edgecolor
                plt.title('Sales vs Profit')
                plt.xlabel('Sales ($)')
                plt.ylabel('Profit ($)')
                plt.grid(True)
            elif plot type == "Histogram":
                plt.hist(df['Sales'], bins=5, color='purple', edgecolor='black')
                plt.title('Sales Distribution')
```

```
plt.xlabel('Sales ($)')
        plt.ylabel('Frequency')
    elif plot type == "Box Plot":
        plt.boxplot(df['Profit'], vert=False, patch artist=True, boxprops=dict
        plt.title('Profit Distribution')
        plt.xlabel('Profit ($)')
    plt.tight layout()
    return fig
# Gradio UI
demo = gr.Interface(
   fn=generate plot,
    inputs=gr.Radio(
        ["Line Plot", "Stacked Bar Chart", "Pie Chart", "Scatter Plot", "Histo
        label="Choose Plot Type"
    ),
    outputs=gr.Plot(label="Visualization"),
    title="Sales & Profit Visual Explorer",
    description="Choose a chart type to visualize the data."
demo.launch()
```

It looks like you are running Gradio on a hosted Jupyter notebook, which requir es `share=True`. 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 la unch()

* Running on public URL: https://fd24cc55635b7e4501.gradio.live

This share link expires in 1 week. For free permanent hosting and GPU upgrades, run `gradio deploy` from the terminal in the working directory to deploy to Hug ging Face Spaces (https://huggingface.co/spaces)

Out[2]: