```
! pip install gradio
```

```
Collecting semantic-version~=2.0 (from gradio)
  Downloading semantic_version-2.10.0-py2.py3-none-any.whl.metadata (9.7 kB)
Collecting starlette<1.0,>=0.40.0 (from gradio)
  Downloading starlette-0.46.2-py3-none-any.whl.metadata (6.2 kB)
Collecting tomlkit<0.14.0,>=0.12.0 (from gradio)
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Collecting uvicorn>=0.14.0 (from gradio)
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Installing collected packages: pydub, uvicorn, tomlkit, semantic-version, ruff, python-multipart, groovy, ffmpy, aiofiles, starlette,
Successfully installed aiofiles-24.1.0 fastapi-0.115.12 ffmpy-0.5.0 gradio-5.29.0 gradio-client-1.10.0 groovy-0.1.2 pydub-0.25.1 pytho
```

```
import pandas as pd

# Read the excel file into a pandas dataframe.
# Note that content/dataset (1).xlsx should be the actual path to your excel file.
df = pd.read_excel('/content/dataset (1).xlsx')

# Display the dataframe.
display(df)
```

	Id	Area	Bedrooms	Bathrooms	Floors	YearBuilt	Location	Condition	Garage	Price
0	1	1000	5	4	3	1970	Downtown	Excellent	No	1000000
1	2	2000	5	4	3	1958	Downtown	Excellent	No	900000
2	3	3000	2	2	3	1938	Downtown	Good	No	2200000
3	4	4000	4	2	2	1902	Suburban	Fair	Yes	200000
4	5	5000	1	4	2	1975	Downtown	Fair	Yes	300000
...	...	...	...	...	...	...	...	...	...	...
77	78	6000	3	3	1	1994	Rural	Good	Yes	9500000
78	79	5000	3	3	2	1977	Urban	Fair	No	1000000
79	80	4000	2	2	2	1975	Urban	Good	Yes	1200000
80	81	6000	3	3	3	1976	Rural	Good	Yes	630000
81	82	34000	2	2	3	1876	Suburban	Good	No	34000000

82 rows × 10 columns

Next steps: Generate code with df | View recommended plots | New interactive sheet

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import gradio as gr
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_squared_error, r2_score

# ================================================
# 1. Load Data
# ================================================
df = pd.read_excel("dataset (1).xlsx")
df.columns = df.columns.str.strip().str.title()
df.drop_duplicates(inplace=True)
df.dropna(subset=["Bedrooms", "Bathrooms", "Floors", "Garage", "Condition", "Price"], inplace=True)
df["TotalRooms"] = df["Bedrooms"] + df["Bathrooms"]
df.reset_index(drop=True, inplace=True)

# ================================================
# 2. Model Training
# ================================================
features = ["Bedrooms", "Bathrooms", "Floors", "Garage", "Condition", "TotalRooms"]
X = pd.get_dummies(df[features], drop_first=True)
y = df["Price"]
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)

model = LinearRegression()
model.fit(X_train, y_train)

# ================================================
# 3. Prediction Function
# ================================================
def predict_price(bedrooms, bathrooms, floors, garage, condition):
    total_rooms = bedrooms + bathrooms
    input_data = pd.DataFrame([{
        "Bedrooms": bedrooms,
        "Bathrooms": bathrooms,
        "Floors": floors,
        "Garage": garage,
        "Condition": condition,
        "TotalRooms": total_rooms
    }])
    input_data = pd.get_dummies(input_data, drop_first=True)
    input_data = input_data.reindex(columns=X.columns, fill_value=0)
    prediction = model.predict(input_data)[0]
    return f"${prediction:,.2f}"

# ================================================
# 4. Gradio Interface
# ================================================
iface = gr.Interface(
    fn=predict_price,
```

```
    fn=predict_price,
    inputs=[
        gr.Number(label="Bedrooms"),
        gr.Number(label="Bathrooms"),
        gr.Number(label="Floors"),
        gr.Number(label="Garage"),
        gr.Dropdown(["Excellent", "Good", "Fair"], label="Condition")
    ],
    outputs="text",
    title="House Price Predictor",
    description="Enter details to predict the price of a house."
)

iface.launch()
```

```
It looks like you are running Gradio on a hosted a Jupyter notebook. For the Gradio app to work, sharing must be enabled. Automatically

Colab notebook detected. To show errors in colab notebook, set debug=True in launch()
* Running on public URL: https://ce4c727db07fcd5b58.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 dir
```