Default title text

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# @title Default title text
import numpy as np
import matplotlib.pyplot as plt

# Generate sample data
timestamps = np.arange(0, 50, 1)  # 50 timestamps
temperature = np.random.uniform(20, 30, size=50)  # Random temperature values
humidity = np.random.uniform(50, 70, size=50)  # Random humidity values
pressure = np.random.uniform(1010, 1015, size=50)  # Random pressure values
vibration = np.random.uniform(0, 0.05, size=50)  # Random vibration values

# Plotting
plt.figure(figsize=(10, 6))

# Temperature plot
plt.plot(timestamps, temperature, label='Temperature (°C)', color='r')

# Humidity plot
plt.plot(timestamps, humidity, label='Humidity (%)', color='b')

# Pressure plot
plt.plot(timestamps, pressure, label='Pressure (hPa)', color='g')

# Vibration plot
plt.plot(timestamps, vibration, label='Vibration (m/s²)', color='m')

plt.xlabel('Timestamp')
plt.ylabel('Values')
plt.title('Sample Sensor Readings Over Time')
plt.legend()
plt.grid(True)
plt.tight_layout()

# Show plot
plt.show()
```