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import Adafruit_DHT
import requests
import time
# Set your DHT sensor type (DHT11, DHT22, AM2302)
sensor = Adafruit_DHT.DHT22
# Set the GPIO pin where your sensor is connected
pin = 4
# ThingSpeak API endpoint and API key
api_endpoint = "https://api.thingspeak.com/update"
api_key = "YOUR_API_KEY"
def read_sensor():
  humidity, temperature = Adafruit_DHT.read_retry(sensor, pin)
  return humidity, temperature
def send_to_thingspeak(humidity, temperature):
  payload = {'api_key': api_key, 'field1': temperature, 'field2': humidity}
  response = requests.post(api_endpoint, params=payload)
  print("Data sent to ThingSpeak. Response:", response.text)
def main():
  try:
    while True:
      humidity, temperature = read_sensor()
      print(f'Temperature: {temperature:.2f}°C, Humidity: {humidity:.2f}%')
```

```
# Uncomment the next line to send data to ThingSpeak
# send_to_thingspeak(humidity, temperature)

time.sleep(15) # Adjust the sleep time based on your monitoring frequency

except KeyboardInterrupt:
    print("Monitoring stopped by user.")

if __name__ == "__main__":
    main()
```