

## DEVELOP THE PYTHON SCRIPT

### INDUSTRY-SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM

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#### PROGRAM:

```
import time import Adafruit_DHT
from Adafruit_IO import Client, Feed
```

```
DHT_READ_TIMEOUT = 5
```

```
DHT_DATA_PIN = 26
```

```
ADAFRUIT_IO_KEY = 'YOUR_AIO_KEY'
```

```
ADAFRUIT_IO_USERNAME = 'YOUR_AIO_USERNAME'
```

```
aio = Client(ADAFRUIT_IO_USERNAME, ADAFRUIT_IO_KEY)
```

```
temperature_feed = aio.feeds('temperature')
```

```
humidity_feed = aio.feeds('humidity') dht22_sensor
```

```
= Adafruit_DHT.DHT22
```

```
while True:
```

```
    humidity, temperature = Adafruit_DHT.read_retry(dht22_sensor,
    DHT_DATA_PIN) if humidity is not None and temperature is not None:
    print('Temp={0:0.1f}*C Humidity={1:0.1f}%'.format(temperature, humidity))
    temperature = '%.2f'%(temperature) humidity = '%.2f'%(humidity)
    aio.send(temperature_feed.key, str(temperature)) aio.send(humidity_feed.key,
    str(humidity)) else:
    print('Failed to get DHT22 Reading, trying again in ', DHT_READ_TIMEOUT, '
```

seconds')

time.sleep(DHT\_READ\_TIMEOUT)