IOT With Machine Learning

TASK 4 – Monitoring with IR Sensors(using Raspberry pi and ThingSpeak)

CODE

IR.py - C:\Users\chaku\Documents\Desktop\PANTECH\IR.py (3.8.5)

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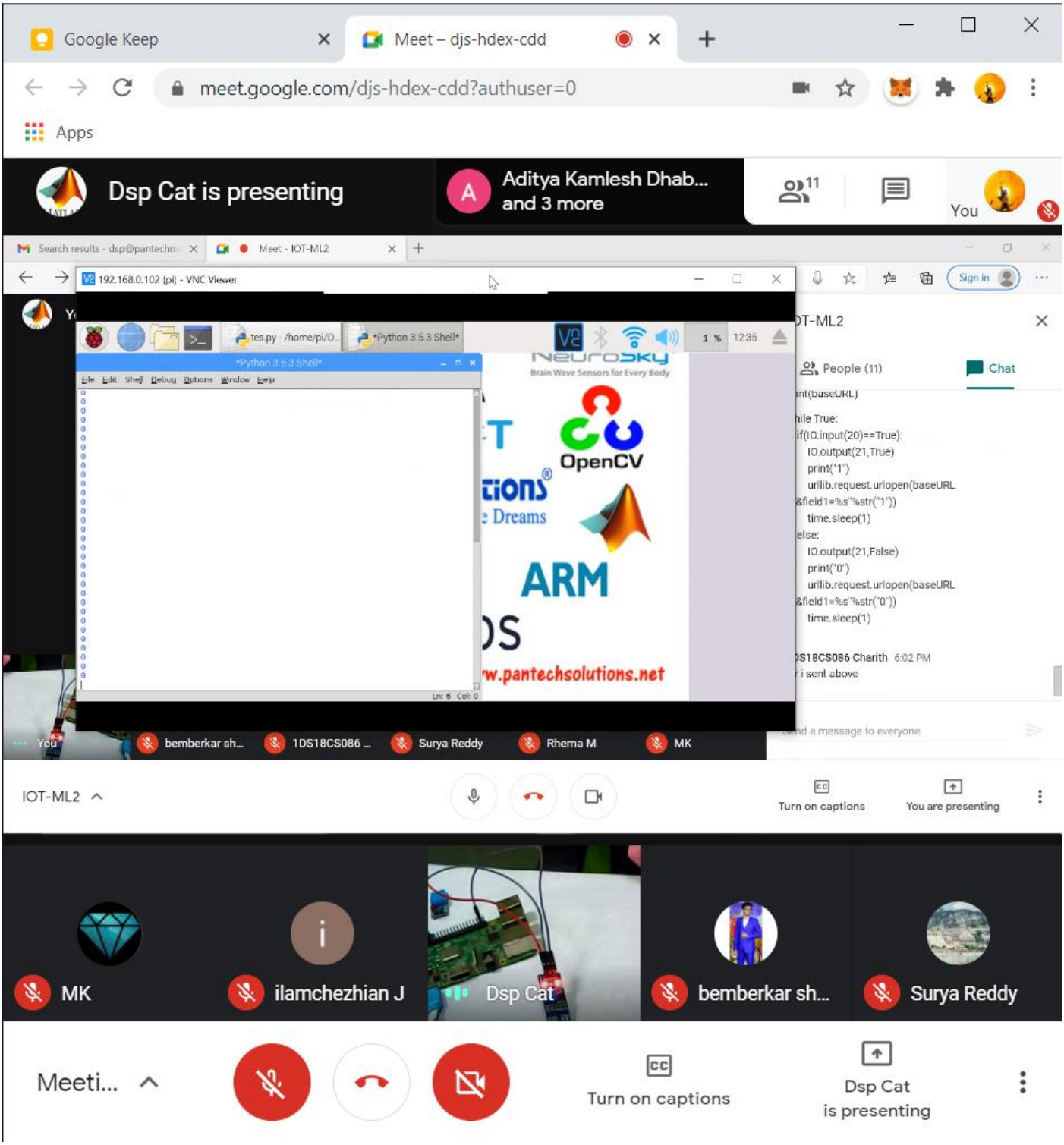
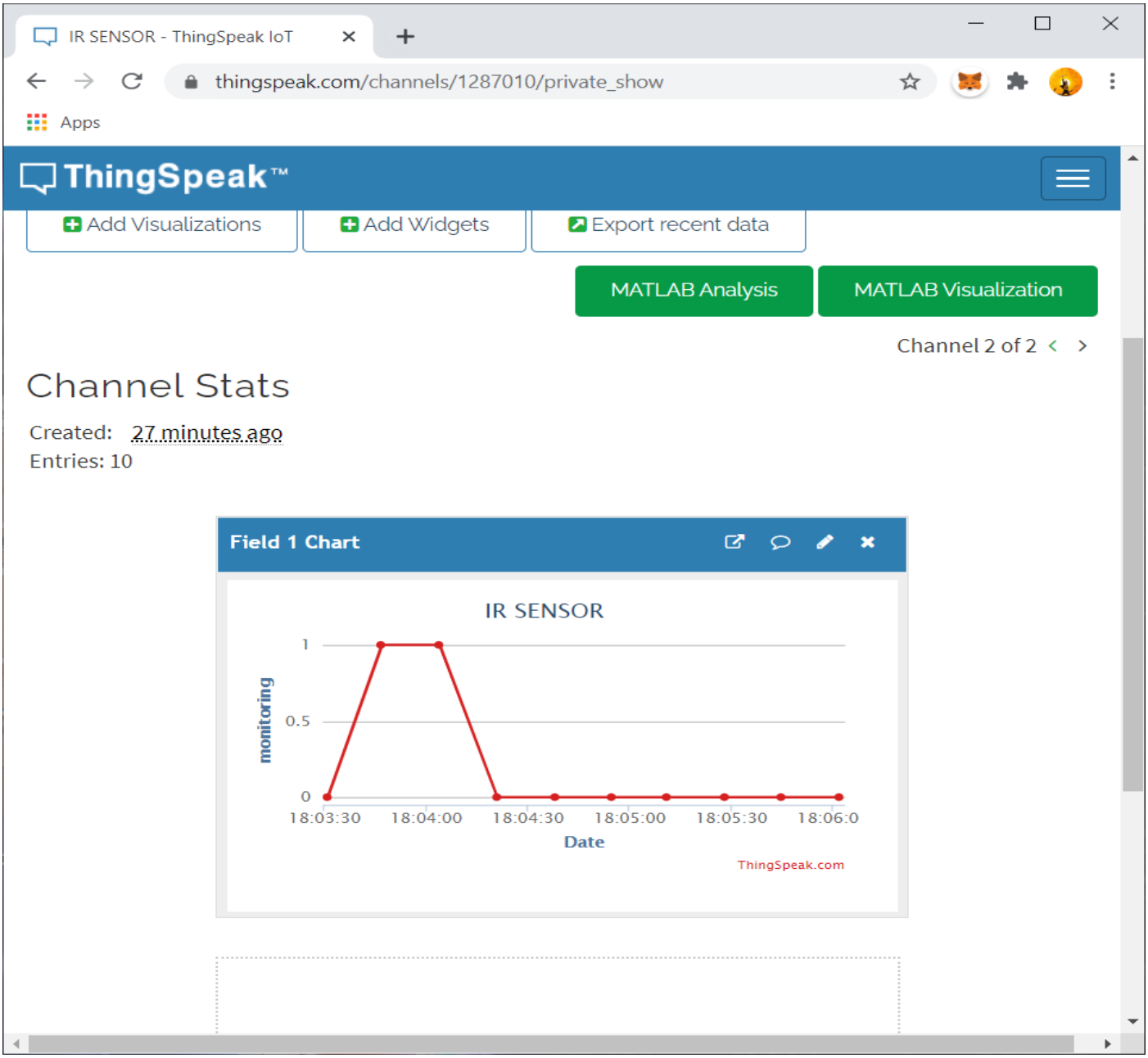
```
import RPi.GPIO as IO
import time
import sys
import os
from time import sleep
import urllib.request

led = 21
IO.setmode(IO.BCM)
IO.setup(led,IO.OUT)
IO.setup(20,IO.IN)
myAPI = "05BMETPJLXN7CXEN"
myDelay = 5 #how many seconds between posting data
print ('starting....')
baseURL='https://api.thingspeak.com/update?api_key=%s' % myAPI
print(baseURL)
while True:
    if(IO.input(20)==True):
        IO.output(21,True)
        print("1")
        urllib.request.urlopen(baseURL +"&field1=%s"%str("1"))
        time.sleep(1)
    else:
        IO.output(21,False)
        print("0")
        urllib.request.urlopen(baseURL +"&field1=%s"%str("0"))
        time.sleep(1)
```

Ln: 18 Col: 0

RESULT


Google Keep
Meet – djs-hdex-cdd
meet.google.com/djs-hdex-cdd?authuser=0
Apps
Dsp Cat is presenting
Aditya Kamlesh Dhab...
and 3 more
You
192.168.0.102 (pi) - VNC Viewer
Python 3.5.3 Shell
OpenCV
ARM
People (11)
Chat
bemberkar sh...
1DS18CS086 ...
Surya Reddy
Rhema M
MK
IOT-ML2
Turn on captions
You are presenting
ilamchezhian J
Dsp Cat
Meeti...
Dsp Cat
is presenting


IR SENSOR - ThingSpeak IoT
thingspeak.com/channels/1287010/private_show
Apps
ThingSpeak™
Add Visualizations
Add Widgets
Export recent data
MATLAB Analysis
MATLAB Visualization
Channel 2 of 2
Channel Stats
Created: 27 minutes ago
Entries: 10
Field 1 Chart
IR SENSOR
monitoring
1
0.5
0
18:03:30
18:04:00
18:04:30
18:05:00
18:05:30
18:06:0
Date
ThingSpeak.com