

VIDEO ANALYSIS

OPEN CV FOR VIDEO PROCESSING

Team ID	PNT2022TMID20850
Project Name	Emerging Methods for Early Detection of Forest Fires

```
[ ] pip install twilio
```

```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/
Collecting twilio
  Downloading twilio-7.15.2-py2.py3-none-any.whl (1.4 MB)
    1.4 MB 5.2 MB/s
Requirement already satisfied: pytz in /usr/local/lib/python3.7/dist-packages (from twilio) (2021.6)
Collecting PyJWT<3.0.0,>=2.0.0
  Downloading PyJWT-2.6.0-py3-none-any.whl (28 kB)
Requirement already satisfied: requests<=2.0.0 in /usr/local/lib/python3.7/dist-packages (from twilio) (2.23.0)
Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.7/dist-packages (from requests<=2.0.0->twilio) (2.10)
Requirement already satisfied: chardet<4,>=3.8.2 in /usr/local/lib/python3.7/dist-packages (from requests<=2.0.0->twilio) (3.0.4)
Requirement already satisfied: urllib3<1.25.0,>=1.25.1,<1.26,>=1.21.1 in /usr/local/lib/python3.7/dist-packages (from requests<=2.0.0->twilio) (1.24.3)
Requirement already satisfied: certifi<=2017.4.17 in /usr/local/lib/python3.7/dist-packages (from requests<=2.0.0->twilio) (2022.9.14)
Installing collected packages: PyJWT, twilio
Successfully installed PyJWT-2.6.0 twilio-7.15.2
```

```
[ ] pip install playsound
```

```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/
Collecting playsound
  Downloading playsound-1.3.0.tar.gz (7.7 kB)
Building wheels for collected packages: playsound
  Building wheel for playsound (setup.py) ... done
  Created wheel for playsound: filename=playsound-1.3.0-py3-none-any.whl size=7635 sha256=1174df3785342888c9f5b5d4a515a849acd7b795c04ec87a88c995684f8aada8
  Stored in directory: /root/.cache/pip/wheels/ba/f8/bb/ea57c8148b664dca3abada4109b8ec95f9dfcb7b7e22b65ba2
Successfully built playsound
Installing collected packages: playsound
Successfully installed playsound-1.3.0
```

```
[ ] #import opencv library
import cv2
#import numpy
import numpy as np
#import image function from keras
from keras.preprocessing import image
#import load_model from keras
from keras.models import load_model
#import client from twilio API
from twilio.rest import Client
#import playsound package
```

```
[ ] account_sid = 'AC2994ca08606f25324a64047ba0cbb34'
    auth_token = '615f2973852a39c1fffe52fad572d250'
    client = Client(account_sid, auth_token)

    message = client.messages \
        .create(
            body='Forest fire is detected , stay alert',
            from_='+13140485401',
            to='+919880269540'
        )

    print(message.sid)
    print('Fire Detected')
    print('SMS sent')
```

```
SPe5c22857e985ead1ebbae53dda634868
Fire Detected
SMS sent
```

OUTCOMES

