APTIMITHRA - ETHNUS

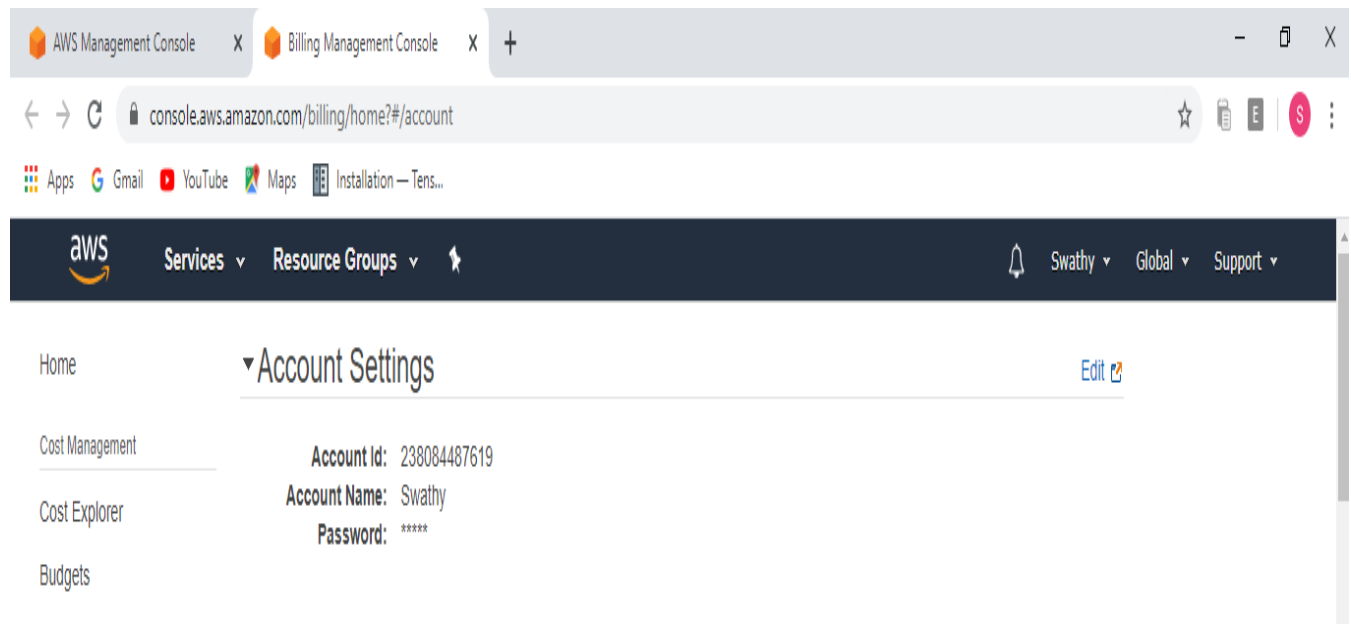**AWS FACE DETECTION PROJECT**

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REGISTER NO: 16MIS0491

COLLEGE NAME: VIT VELLORE

COURSE NAME: M-TECH (SOFTWARE ENGINEERING)

Screenshots needed for Dashboards

1. AWS Login screen with username

2. EC2 Dashboard

3. S3 Dashboard

4. Rekognition Dashboard

Screenshots needed for EC2

1. Choosing an AMI

2. Choosing an Instance Type

3. Adding Storage

4. Configuring Security Grou

5. Key Pair Download

6. PuTTYgen conversion from pem to ppk
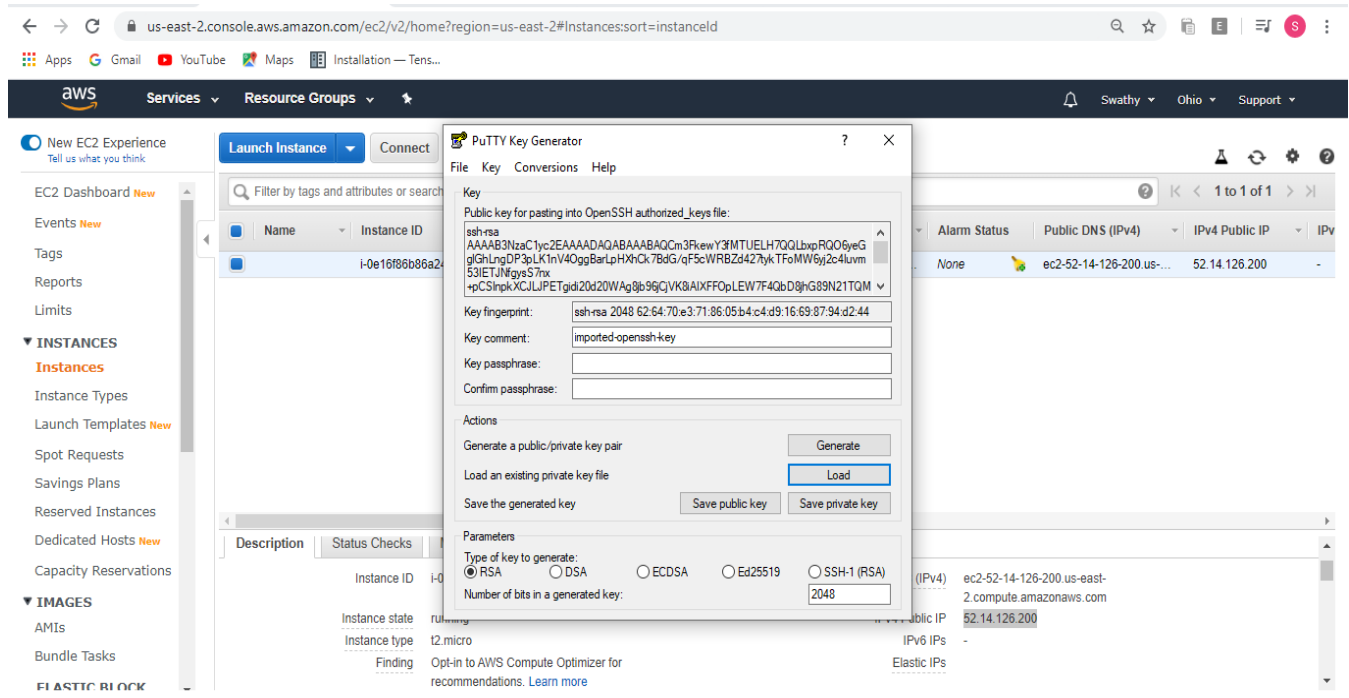
7. Logged in EC2 black screen
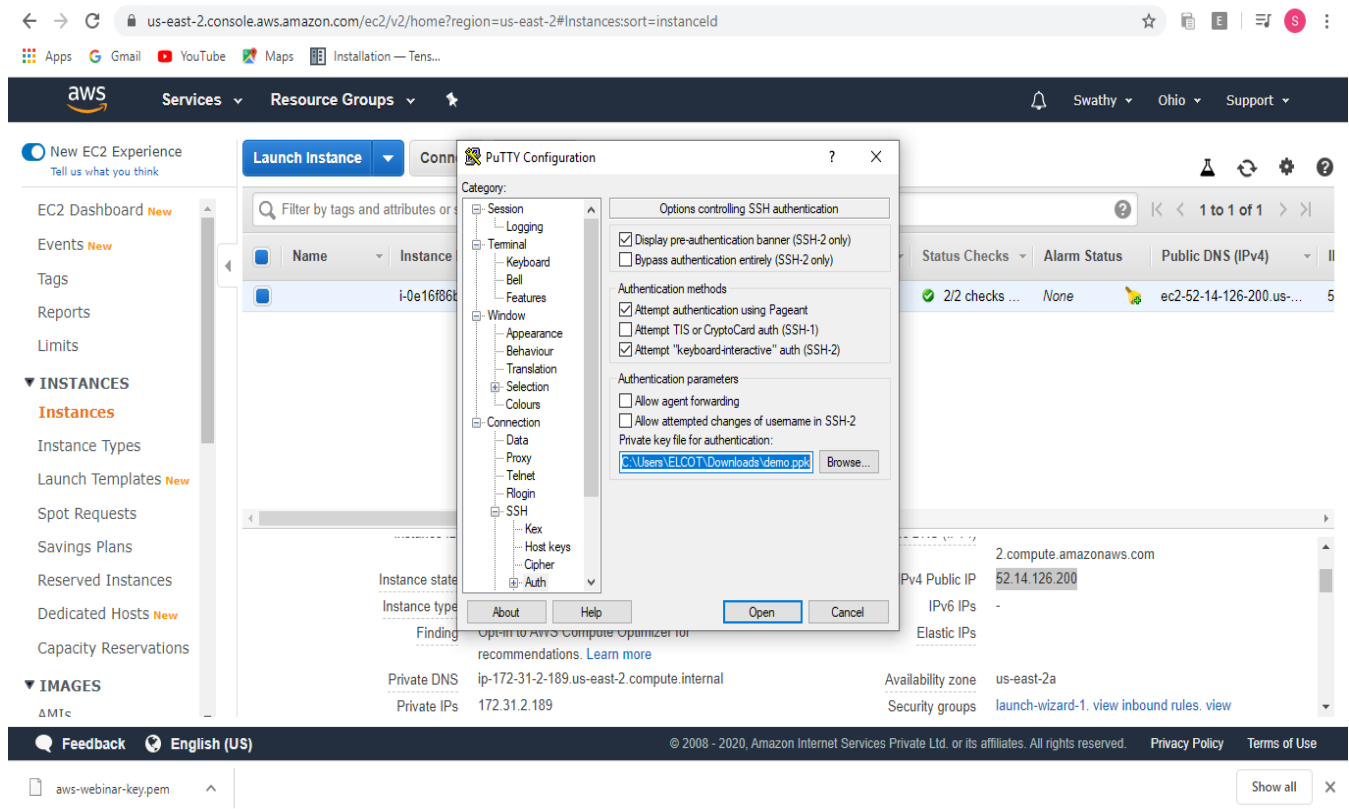
aws   Services ▾   Resource Groups ▾   ★

Swathy ▾   Ohio ▾   Support ▾

New EC2 Experience
Tell us what you think

EC2 Dashboard New
Events New
Tags
Reports
Limits

▼ INSTANCES
Instances
Instance Types
Launch Templates New
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts New
Capacity Reservations

▼ IMAGES
AMIs
Bundle Tasks

ELASTIC BLOCK

Launch Ins

Filter by

Name

1 to 1 of 1

IPv4) ▾   IPv4 Public IP ▾   IPv

6-200.us-...   52.14.126.200   -

```
ec2-user@ip-172-31-2-189:~

login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Mon Mar 30 11:42:05 2020 from 42.109.129.94


       _|  _|_  )
       _|  (   /   Amazon Linux 2 AMI
       ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
1 package(s) needed for security, out of 7 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-2-189 ~]$
```

Description

Instance type   t2.micro

Finding   Opt-in to AWS Compute Optimizer for
recommendations. Learn more

IPv6 IPs   -

Elastic IPs

```
ec2-user@ip-172-31-2-189:~

login as: ec2-user
Authenticating with public key "imported-openssh-key"
Last login: Mon Mar 30 10:39:02 2020 from 157.50.111.141


       _|  _|_  )
       _|  (   /   Amazon Linux 2 AMI
       ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
1 package(s) needed for security, out of 7 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-2-189 ~]$ sudo yum install httpd
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                                        | 2.4 kB     00:00
Resolving Dependencies
--> Running transaction check
---> Package httpd.x86_64 0:2.4.41-1.amzn2.0.1 will be installed
--> Processing Dependency: httpd-tools = 2.4.41-1.amzn2.0.1 for package: httpd-2
.4.41-1.amzn2.0.1.x86_64
--> Processing Dependency: httpd-filesystem = 2.4.41-1.amzn2.0.1 for package: ht
tpd-2.4.41-1.amzn2.0.1.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.41-1.amzn2.
0.1.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.41-1.amzn2.0.1.x86_6
4
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.41-1.amzn2.0.
1.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.41-1.amzn2.0.1
.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.41-
1.amzn2.0.1.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.41-1.am
zn2.0.1.x86_64
--> Running transaction check
---> Package apr.x86_64 0:1.6.3-5.amzn2.0.2 will be installed
---> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Processing Dependency: apr-util-bdb(x86-64) = 1.6.1-5.amzn2.0.2 for package:
 apr-util-1.6.1-5.amzn2.0.2.x86_64
---> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed
---> Package httpd-filesystem.noarch 0:2.4.41-1.amzn2.0.1 will be installed
---> Package httpd-tools.x86_64 0:2.4.41-1.amzn2.0.1 will be installed
---> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
---> Package mod_http2.x86_64 0:1.15.3-2.amzn2 will be installed
--> Running transaction check
---> Package apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Finished Dependency Resolution
```

```
Complete!
[ec2-user@ip-172-31-2-189 ~]$ sudo service httpd start
Redirecting to /bin/systemctl start httpd.service
[ec2-user@ip-172-31-2-189 ~]$ sudo service httpd status
Redirecting to /bin/systemctl status httpd.service
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor prese
t: disabled)
   Active: active (running) since Mon 2020-03-30 10:54:55 UTC; 42s ago
     Docs: man:httpd.service(8)
 Main PID: 3816 (httpd)
   Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes se
rved/sec:   0 B/sec"
   CGroup: /system.slice/httpd.service
           ─3816 /usr/sbin/httpd -DFOREGROUND
           ─3817 /usr/sbin/httpd -DFOREGROUND
           ─3818 /usr/sbin/httpd -DFOREGROUND
           ─3819 /usr/sbin/httpd -DFOREGROUND
           ─3820 /usr/sbin/httpd -DFOREGROUND
           ─3821 /usr/sbin/httpd -DFOREGROUND

Mar 30 10:54:55 ip-172-31-2-189.us-east-2.compute.internal systemd[1]: Starti...
Mar 30 10:54:55 ip-172-31-2-189.us-east-2.compute.internal systemd[1]: Starte...
Hint: Some lines were ellipsized, use -l to show in full.
[ec2-user@ip-172-31-2-189 ~]$ sudo vim /var/www/html/index.html
[ec2-user@ip-172-31-2-189 ~]$
```
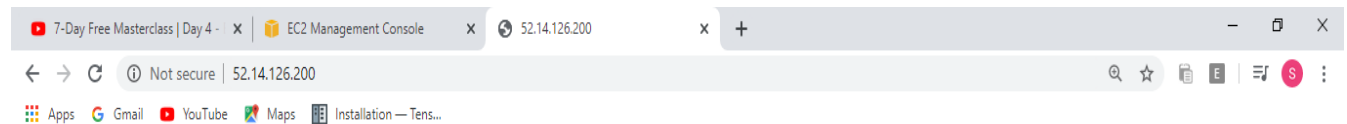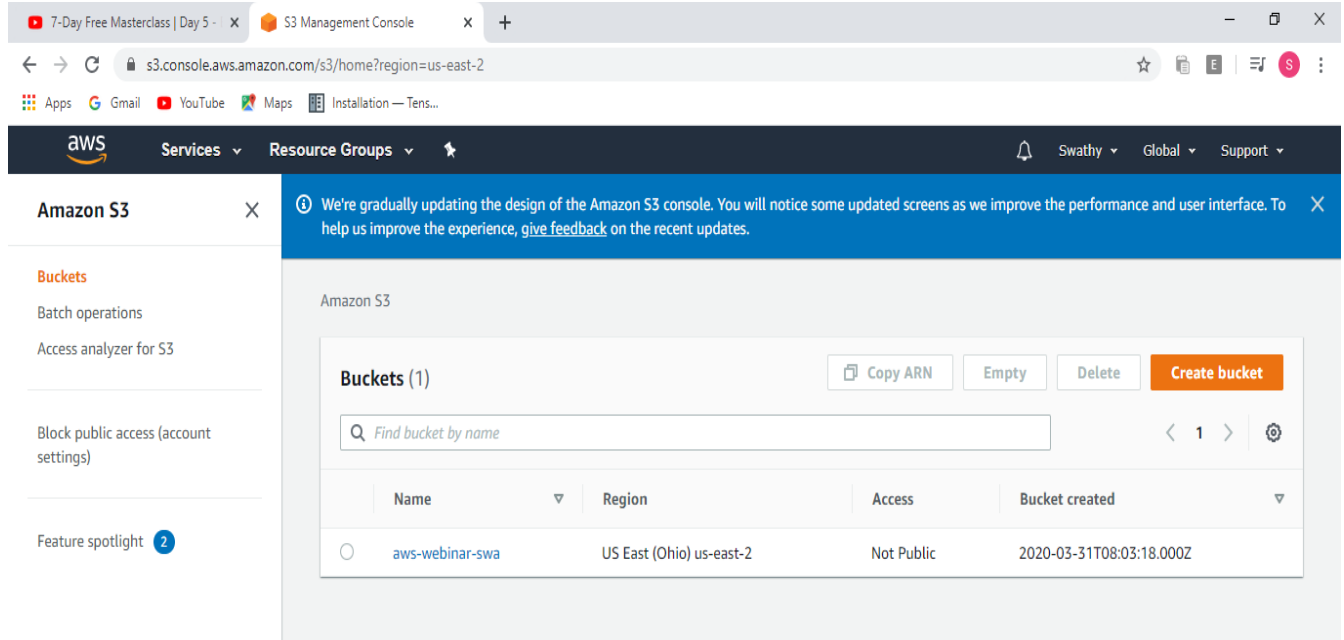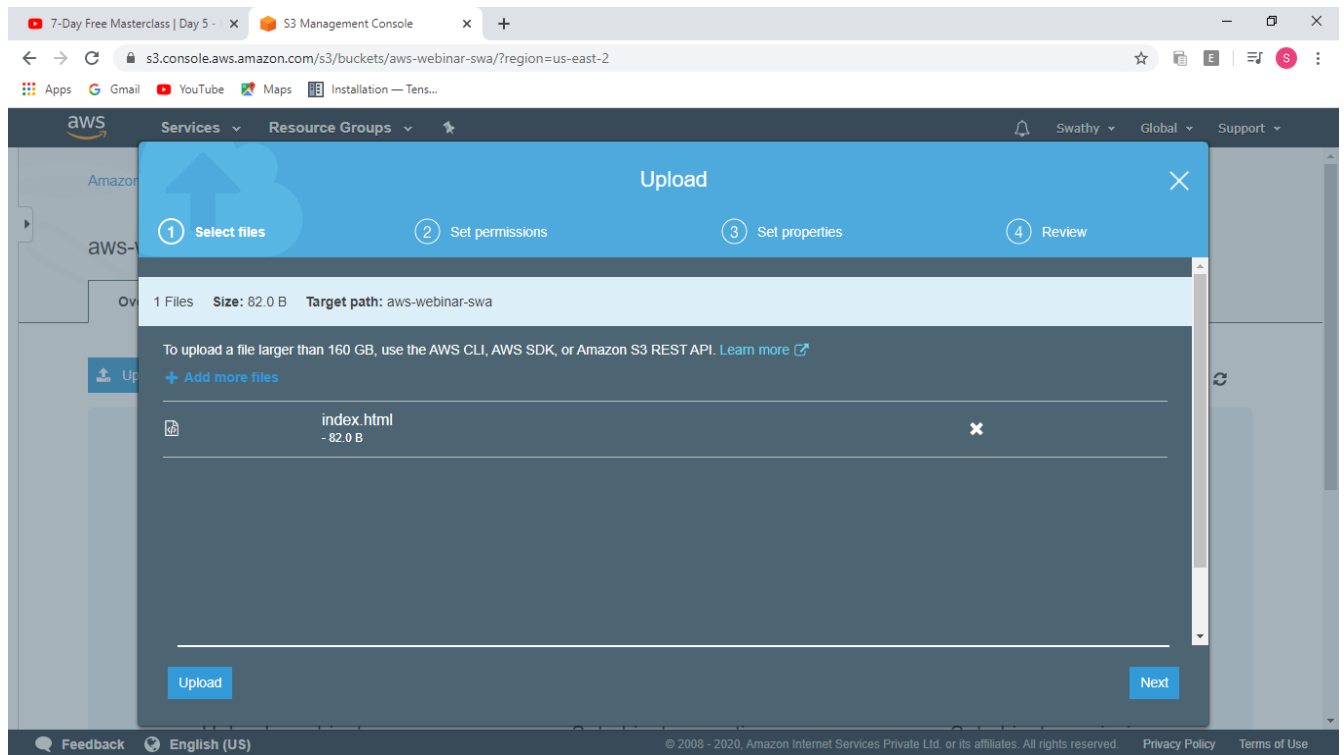
ec2-user@ip-172-31-2-189:~

```
hi swathy,
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```

7-Day Free Masterclass | Day 4 -   ×   EC2 Management Console   ×   52.14.126.200   ×   +

← → C   ⓘ Not secure | 52.14.126.200

Apps   G Gmail   YouTube   Maps   Installation — Tens...

hi swathy,

Screenshots needed for S3

1. Creating a bucket

2. Uploading an Object

3. Enabling Static Website

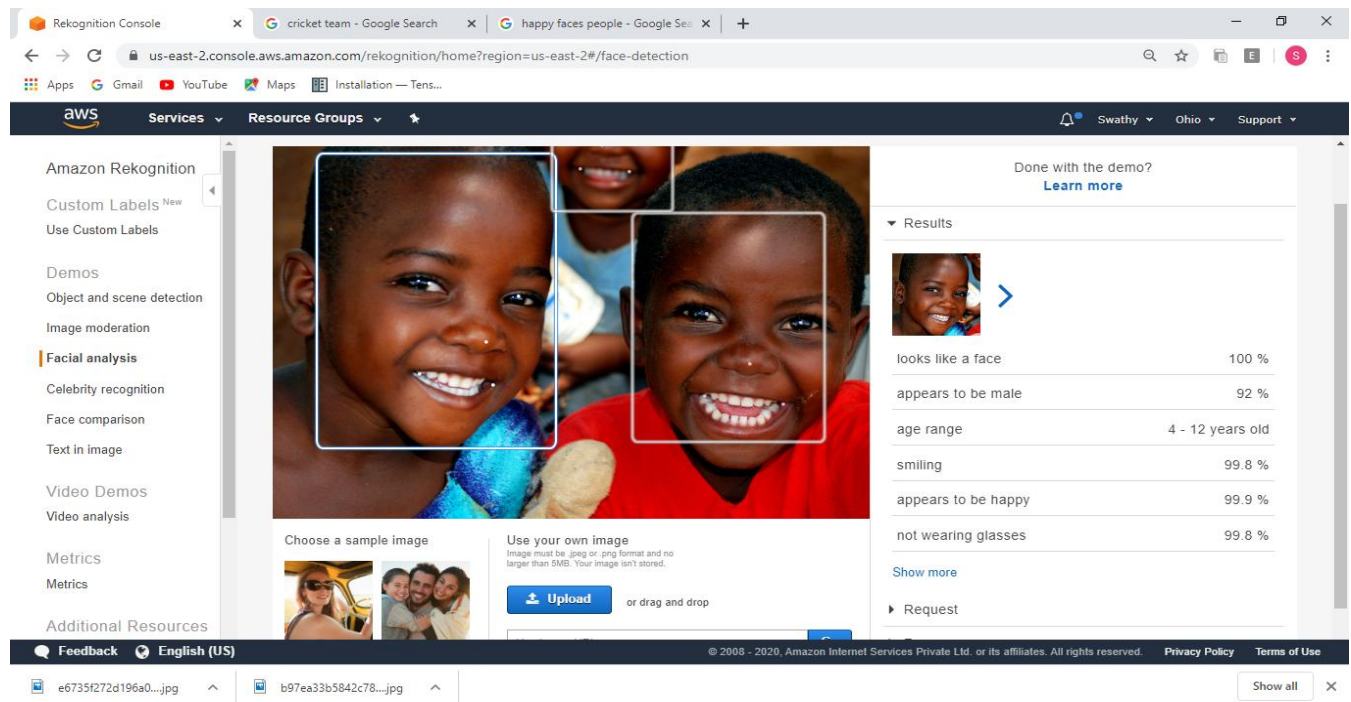# 4. Making the Object Public

5. Checking the S3 link on the browser

Hi, this is swathy, i am pursuing my Mtech software engineering in VIT university.

Screenshots needed for Rekognition

1. Face Detect

2. Face Compare

3. Celebrity Recognition

4. Text in Image

Screenshots needed for EC2 & S3

1. Installing aws-sdk

2. Installing php

3. index.php file code


```
In case if you get memory error -
        sudo /bin/dd if=/dev/zero of=/var/swap.1 bs=1M count=1024
        sudo /sbin/mkswap /var/swap.1
        sudo /sbin/swapon /var/swap.1

sudo wget https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c7894b804923c6c05580.jpg
sudo mv b97ea33b5842c7894b804923c6c05580.jpg sample.jpg

*/
error_reporting(0);

require_once(__DIR__ . '/vendor/autoload.php');

use Aws\S3\S3Client;
use Aws\Rekognition\RekognitionClient;


$bucket = 'aws-webinar-swa2';
$keyname = 's.jpg';

$s3 = S3Client::factory([
        'profile'       => 'default',
        'region'        => 'us-east-2',
        'version'       => '2006-03-01',
        'signature'     => 'v4'
]);

try {
    // Upload data.
        $result = $s3->putObject([
                'Bucket'                => $bucket,
                'Key'                   => $keyname,
                'SourceFile'    => __DIR__. "/$keyname",
                'ACL'                   => 'public-read'
        ]);

    // Print the URL to the object.
        $imageUrl = $result['ObjectURL'];
        if($imageUrl) {
                echo "Image upload done... Here is the URL: " . $imageUrl;
        }
} catch (Exception $e)
        echo $e->getMessage() . PHP_EOL;
```

4. Upload success screenshot


```
[ec2-user@ip-172-31-35-203 face]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg s
.jpg
[ec2-user@ip-172-31-35-203 face]$ ls
composer.json  composer.lock  index.php  sample.jpg  s.jpg  vendor
[ec2-user@ip-172-31-35-203 face]$ sudo vim index.php
[ec2-user@ip-172-31-35-203 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-webinar-swa2.s3.us-east-2.amaz
[ec2-user@ip-172-31-35-203 face]$
```

```
Downloading...

Composer (version 1.10.1) successfully installed to: /home/ec2-user/composer.pha
r
Use it: php composer.phar

[ec2-user@ip-172-31-35-203 ~]$ cd /var/www/html
[ec2-user@ip-172-31-35-203 html]$ sudo mkdir face
mkdir: cannot create directory 'face': File exists
[ec2-user@ip-172-31-35-203 html]$ cd face
[ec2-user@ip-172-31-35-203 face]$ pwd
/var/www/html/face
[ec2-user@ip-172-31-35-203 face]$ sudo php -d memory_limit=-1 ~/composer.phar re
quire aws/aws-sdk-php
Using version ^2.8 for aws/aws-sdk-php
./composer.json has been updated
Loading composer repositories with package information
Updating dependencies (including require-dev)
Nothing to install or update
Package guzzle/guzzle is abandoned, you should avoid using it. Use guzzlehttp/gu
zzle instead.
Generating autoload files
[ec2-user@ip-172-31-35-203 face]$ sudo wget https://i.pinimg.com/originals/b9/7e
/a3/b97ea33b5842c7894b804923c6c05580.jpg
--2020-04-03 07:10:49--  https://i.pinimg.com/originals/b9/7e/a3/b97ea33b5842c78
94b804923c6c05580.jpg
Resolving i.pinimg.com (i.pinimg.com)... 151.101.248.84, 2600:1408:20:ab3::1931,
 2600:1408:20:aba::1931, ...
Connecting to i.pinimg.com (i.pinimg.com)|151.101.248.84|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 215551 (210K) [image/jpeg]
Saving to: 'b97ea33b5842c7894b804923c6c05580.jpg'

100%[====================================>] 215,551      --.-K/s   in 0.04s

2020-04-03 07:10:49 (4.59 MB/s) - 'b97ea33b5842c7894b804923c6c05580.jpg' saved [
215551/215551]

[ec2-user@ip-172-31-35-203 face]$ sudo mv b97ea33b5842c7894b804923c6c05580.jpg s
.jpg
[ec2-user@ip-172-31-35-203 face]$ ls
composer.json  composer.lock  index.php  sample.jpg  s.jpg  vendor
[ec2-user@ip-172-31-35-203 face]$ sudo vim index.php
[ec2-user@ip-172-31-35-203 face]$ sudo php index.php
Image upload done... Here is the URL: https://aws-webinar-swa2.s3.us-east-2.amaz
[ec2-user@ip-172-31-35-203 face]$
```

IMAGE UPLOAD DONE