## Commands used for deploying the flask application on the ec2 instance

#### Install Docker on EC2 instance

```
#To install docker on EC2:
sudo amazon-linux-extras install docker

sudo yum install docker

#start to docker service
sudo service docker start

#change the user permissions
sudo usermod -a -G docker ec2-user
```

### Copy the files to EC2 Instance

```
>>scp -i SDK_keys.pem model\ deployment\ files/requirements.txt
ec2-user@ec2-54-160-80-35.compute-1.amazonaws.com:/home/ec2-user
>>scp -i SDK_keys.pem model\ deployment\ files/model_age_sc01.pk1
ec2-user@ec2-54-160-80-35.compute-1.amazonaws.com:/home/ec2-user
>>scp -i SDK_keys.pem model\ deployment\ files/model_gender_sc01.pk1
ec2-user@ec2-54-160-80-35.compute-1.amazonaws.com:/home/ec2-user
>>scp -i SDK_keys.pem model\ deployment\ files/Dockerfile
ec2-user@ec2-54-160-80-35.compute-1.amazonaws.com:/home/ec2-user
>>scp -i SDK_keys.pem model\ deployment\ files/app.py
ec2-user@ec2-54-160-80-35.compute-1.amazonaws.com:/home/ec2-user
>>scp -i SDK_keys.pem model\ deployment\ files/templates/index.html
ec2-user@ec2-54-160-80-35.compute-1.amazonaws.com:/home/ec2-user
scp -i SDK_keys.pem model\ deployment\ files/Test_csv_50.csv
ec2-user@ec2-54-160-80-35.compute-1.amazonaws.com:/home/ec2-user
```

### Build and run the docker image sudo chmod 666 /var/run/docker.sock

```
#build docker image
docker build -t genderagepredict .

docker run -p 5000:5000 genderagepredict
```

## The screenshot of the final output for predicting the campaigns for the 50 customers

	Device_id	Gender_predicted_probas	Age_predicted	Gender	Selected campaign (Based on Gender)	Selected campaign (Based on Age)
0 9	125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
1 9	125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
2 9	125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
3 9	125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
4 9	9125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
5 9	0125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
6 9	125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
7 9	9125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
9 9	0125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
_:	3664197211064620000	0,000003	[36]	М	Campaign 3	Campaign 6
11 9	9125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
			[25]	F	Campaign 1 and Campaign 2	Campaign 5
13 9	125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.000003	[36]	M	Campaign 3	Campaign 6
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
-		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
-		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
			[25]	F	Campaign 1 and Campaign 2	Campaign 5
- 1	8808776377817700000		[36]	M	Campaign 3	Campaign 6
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
00		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980		F		Campaign 5
			[25]	F	Campaign 1 and Campaign 2  Campaign 1 and Campaign 2	Campaign 5
		0.999980	-	F	10 10	
- 1			[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	-	Campaign 1 and Campaign 2	Campaign 5
			[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
_:		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.000003	[36]	M	Campaign 3	Campaign 6
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
	3926780516486000000		[36]	M	Campaign 3	Campaign 6
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.000003	[36]	M	Campaign 3	Campaign 6
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
49 6	5072749575904930000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5

# Above screenshot taken on local. After running above commands on EC2 we deployed the flask application successfully.

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_						
_				=	Selected campaign (Based on Gender)	
=		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
1		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
=		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
_		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
_		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
=		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
_		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
=		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
=		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
_		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
_	-3664197211064620000		[36]	M	Campaign 3	Campaign 6
_		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
_		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
15	-3664197211064620000		[36]	M	Campaign 3	Campaign 6
_		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
17	3864672045456310000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
=		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
19		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
		0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
21	9125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
22	9125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
23	2366047595700040000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
24	9125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
25	-8808776377817700000	0.000003	[36]	M	Campaign 3	Campaign 6
26	9125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
27	4152972437347800000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
28	664529872749806000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
29	9125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
30	3396214697706440000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
31	9125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
32	9125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
33	9125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
34	3864672045456310000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
35	9125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
36	9125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
37	9125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
38	3864672045456310000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
39	3864672045456310000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5
10	9125896648976320000	0.999980	[25]	F	Campaign 1 and Campaign 2	Campaign 5