

Course outline

How does an NPTEL online course work?

Prerequisite Assignment

Welcome to PSOSM class

Introduction to Social Media API

Misinformation and Privacy

Privacy and Pictures on Online Social Media

- ☐ Week-4.1 Privacy and Pictures on Online Social Media
- ☐ Tutorial 4- Python essentials- Part 1 numpy
- ☐ Tutorial 4- Python essentials- Part 2 pandas,matplotlib
- ☐ Week 4 Feedback Form : Privacy and Security in Online Social Media

● Quiz: Week 4 : Assignment 1

Policing and Social Media

E-crime and social media

Social media and ecrime

Identity resolution and social media

Research papers: Location based Privacy

Research Papers Part - II

Week 11: Summary

Lecture materials/Notes

Text Transcripts

Download videos

Books

Week 4 : Assignment 1

The due date for submitting this assignment has passed.

Due on 2023-02-22, 23:59 IST.

Assignment submitted on 2023-02-19, 12:44 IST

1) Recently, there was a privacy policy change by Whatsapp; how did Whatsapp go about the situation? 1 point

- ☒ They notified the users with the revised policy and gave them a timeline to accept the policy.
- ☐ They only tell about the policy change to newly registered users.
- ☐ They hide this information from all users.
- ☐ They notify the users with the revised policy and give them a timeline, where either they can accept or reject it and continue using the product.

Yes, the answer is correct.

Score: 1

Accepted Answers:

They notified the users with the revised policy and gave them a timeline to accept the policy.

2) How can you start the jupyter notebook server without opening a browser? 1 point

- ☒ jupyter notebook --no-browser
- ☐ jupyter notebook --browser
- ☐ jupyter notebook --not-browser
- ☐ None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

jupyter notebook --no-browser

3) Given below the following. Identify the correct option(s) regarding python list and python numpy array. 1 point

- 1) [2, 'dog', 3, 4.0, 5]
 2) [0., 1.23452321, 1.98675643, 3.45675423, 7.12354378]
- ☒ 1) can be a python list whereas 2) can be a python numpy array
 - ☐ 1) can be a python numpy array whereas 2) can be a python list
 - ☒ 1) can be a python list whereas 2) can be a python list
 - ☐ 1) can be a python numpy array whereas 2) can be a python numpy array

Yes, the answer is correct.

Score: 1

Accepted Answers:

1) can be a python list whereas 2) can be a python numpy array

1) can be a python list whereas 2) can be a python list

4) What would be the 'output' of the below code 1 point

```
import numpy as np
privacy= np.array([ 4, 5, 6] )
security=np.array([ 1, 2, 3] )
output = np.hstack((security, privacy))
```

- ☐ [4 5 6 1 2 3]
- ☒ [1 2 3 4 5 6]
- ☐ [1 3 2 4 6 5]
- ☐ [1 4 5 6 2 3]

Yes, the answer is correct.

Score: 1

Accepted Answers:

[1 2 3 4 5 6]

5) What is the problem statement of LATANYA SWEENEY's research work, as discussed in the lecture? 1 point

- ☐ Given person-specific field-structured data, produce a release of the data with scientific guarantees that the individuals who are the subjects of the data cannot be reidentified while the data remain practically useful.
- ☒ Identifying important attributes for the re-identification of a person, given any dataset, only ZIP, Birth Date, and Sex are the important attributes.
- ☐ None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Given person-specific field-structured data, produce a release of the data with scientific guarantees that the individuals who are the subjects of the data cannot be reidentified while the data remain practically useful.

6) Which of the following statement(s) is/are true about k-anonymity? 1 point

- ☒ The information for each individual in the released anonymized dataset cannot be distinguished from at-least k-1 individuals whose information also appears in the anonymized dataset.
- ☒ Any record in a k-anonymized data set has a maximum probability 1/k of being re-identified
- ☐ K-anonymity provides privacy even if the sensitive attributes in the dataset lack diversity

Yes, the answer is correct.

Score: 1

Accepted Answers:

The information for each individual in the released anonymized dataset cannot be distinguished from at-least k-1 individuals whose information also appears in the anonymized dataset.

Any record in a k-anonymized data set has a maximum probability 1/k of being re-identified

7) What is the output of the following code?

1 point

```
import numpy as np
import numpy.matlib
media = np.arange(12).reshape(2,2,3)
social= np.arange(8).reshape(2,2,2)
print (np.matmul(social,media))
```

☐
[[[4 5 6]
 [12 17 22]]
 [[92 101 119]
 [132 145 171]]]

☐
[[[3 4 5]
 [9 14 19]]
 [[69 78 87]
 [99 112 125]]]

☐ Value Error
☒ None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:

[[[3 4 5]
 [9 14 19]]
 [[69 78 87]
 [99 112 125]]]

8) What are the correct guidelines to raise awareness about oversharing on social media?

1 point

- ☐ Develop platforms like "Pleaserobme.com" to create awareness
☐ Change the privacy of your posts and profiles periodically
☐ Do not make birthdate, address, children's names related information public.
☒ All of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:

All of the above

Based on the below articles <https://restofworld.org/2020/all-the-data-fit-to-sell/>

https://zeenews.india.com/business/news/technology/most-indians-ignorant-about-privacy-issues-study_65985.html

9) What percentage of users never read the privacy policy on any website?

1 point

- ☒ 75%
☐ 25%
☐ 10%
☐ 80%

Yes, the answer is correct.
Score: 1

Accepted Answers:

75%

Read the Whatsapp data policy at <https://www.whatsapp.com/legal/privacy-policy/?lang=en> and answer questions 10 to 14

10) With respect to the content and information provided by you, what is true about information sharing on Whatsapp ?

1 point

- ☒ Your messages, photos, and account information, Group you are connected to are not shared with facebook.
☐ Whatsapp does not create a favorites list of your contacts for you.
☐ Whatsapp messages are end-to-end encrypted but third parties can read them.
☐ All of the above

Yes, the answer is correct.
Score: 1

Accepted Answers:

Your messages, photos, and account information, Group you are connected to are not shared with facebook.

11) Among content, information and transactions made, what data does Whatsapp collect?

1 point

- ☐ Credit Card number
☒ Transactional Information
☒ device-specific information when you use Whatsapp services.
☒ device-specific information when you install, access Whatsapp services.

Yes, the answer is correct.
Score: 1

Accepted Answers:

Transactional Information

device-specific information when you use Whatsapp services.

device-specific information when you install, access Whatsapp services.

12) Choose the correct option(s):

1 point

- ☐ Whatsapp keeps your information, even after you delete your account.
☒ The undelivered message is deleted only after 30 days.
☒ Whatsapp does not retain your messages in the ordinary course of providing Services to their customers.
☒ Whatsapp uses your data for research, analytics and responding to customers.

Yes, the answer is correct.

Score: 1

Accepted Answers:

The undelivered message is deleted only after 30 days.

Whatsapp does not retain your messages in the ordinary course of providing Services to their customers.

Whatsapp uses your data for research, analytics and responding to customers.

13) What types of the third-parties with whom Whatsapp shares the data?

1 point

- ☐ Partners who use Whatsapp analytical services.
- ☐ Advertisers on facebook for making product suggestions.
- ☐ With facebook to show relevant offers and ads.
- ☒ None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

None of the above

14) Whatsapp doesn't store information about the duration of your activity!

1 point

- ☐ True
- ☒ False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

15) What percent of participants were matched to their correct Facebook profiles In experiment 2?

1 point

- ☐ 28%
- ☐ 39%
- ☐ 40%
- ☒ 38%

Yes, the answer is correct.

Score: 1

Accepted Answers:

38%

16) Photo/video taken by CCTV cameras is of more concern than someone's smartphone according to the participants, in the context of Mobile phones?

1 point

- ☒ True
- ☐ False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

17) In Experiment 1, discussed in the lecture, photos were collected from Instagram.

1 point

- ☐ True
- ☒ False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

18) In Experiment 1 discussed in the lecture, "for identifying the person from an unidentified source, Government and dating websites both were used." This statement is:

1 point

- ☐ True
- ☒ False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

19) For reidentification, which of the following sources was used according to experiment 2 discussed in the lecture?

1 point

- ☐ CCTV cameras
- ☒ Facebook
- ☐ Government
- ☐ Dating Website

Yes, the answer is correct.

Score: 1

Accepted Answers:

Facebook

20) Assume all the required libraries (if any) are already imported? What would be the output of the following code (python2.7+)?

1 point

```
online= lambda a : a + 15
print(online(10))
socialmedia = lambda b, c : b* c
print(socialmedia(12, 4))
```

- ☒ 25, 48
- ☐ 27, 48
- ☐ 19,48
- ☐ Compilation Error

Yes, the answer is correct.

Score: 1

Accepted Answers:

25, 48

