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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **Privacy And Security In Online Social Media**
(course)



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Course
outline

How does an
NPTEL online
course work?
()

Prerequisite
Assignment ()

Welcome to
PSOSM class
()

Introduction
to Social
Media API ()

Misinformation
and Privacy

Week 8 : Assignment 8

The due date for submitting this assignment has passed.

Due on 2023-09-20, 23:59 IST.

Assignment submitted on 2023-09-20, 23:26 IST

1) What are the different approaches to profile linking?

1 point

- ☒ Study and analyse common attributes (place of work, profile picture, name, etc.) across different social media platforms
- ☒ Check important attributes such as the same emails, locations, and contact numbers (if available) used across multiple platforms
- ☐ Only looking at the user posting behaviour on social media platforms will help in profile linking.
- ☐ It is not possible to find the same user profiles on different social media platforms.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Study and analyse common attributes (place of work, profile picture, name, etc.) across different social media platforms

Check important attributes such as the same emails, locations, and contact numbers (if available) used across multiple platforms

2) Which of the following statements is/are true regarding username change on social media?

1 point

()

Privacy and Pictures on Online Social Media ()

Policing and Social Media ()

E-crime and social media ()

Social media and ecrime ()

Identity resolution and social media ()

● Week 8.1: Profile Linking on Online Social Media (unit? unit=58&lesson=59)

● Week 8.2: Anonymous Networks (unit? unit=58&lesson=60)

● Tutorial 6: Gephi Network Visualization (unit? unit=58&lesson=61)

● Quiz: Week 8 : Assignment 8 (assessment? name=133)

● Week 8 Feedback Form : Privacy and

S1: Changes to any profile attribute other than username do not lead to unreachability to the user profile.

S2: The potential benign reasons for username change include space gain, suiting a trending event, gaining/losing anonymity, adjusting to real-life events, and avoiding boredom.

S3: The malicious intentions for username change may include obscured username promotion and username squatting.

S4: Search by the user's old username results in a failed attempt to reach the user's profile, potentially making others falsely believe that the user account has been deactivated.

- ☐ Only S1 and S4 are correct
- ☐ Only S1, S2, and S3 are correct
- ☐ S1, S2, and S4 are correct
- ☒ All S1, S2, S3, S4 are correct.

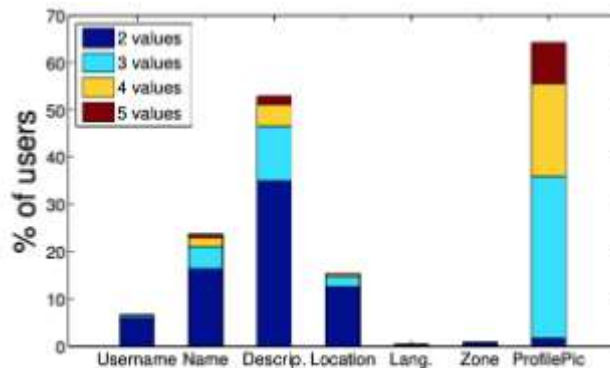
Yes, the answer is correct.

Score: 1

Accepted Answers:

All S1, S2, S3, S4 are correct.

3) Below is the graph of username change. Which of the following is correct inference from the graph (as discussed in the lecture)? **0 points**



- ☒ Around 35 per cent, of the users change their profile picture at least 3 times.
- ☐ Around 60-70 percent of the users change their usernames atleast once.
- ☐ Around 35 percent of the users change their profile picture atmost 3 times.
- ☐ Around 50-55 per cent of users have changed their descriptions thrice.

Yes, the answer is correct.

Score: 0

Accepted Answers:

Around 35 per cent, of the users change their profile picture at least 3 times.

4) Why do whisper users have a low clustering coefficient over the network? **1 point**

- ☒ Whisper users are likely to interact with complete strangers who are highly unlikely to interact with each other.
- ☐ Users interact with a large sample of other users

Security in
Online Social
Media (unit?
unit=58&lesson
=62)

**Research
papers:
Location
based
Privacy ()**

**Research
Papers Part -
II ()**

**Week 11:
Summary ()**

**Lecture
materials/Not
es ()**

**Text
Transcripts ()**

**Download
videos ()**

Books ()

**Problem
Solving
Session -
July 2023 ()**

- ☐ New users make 20% of the contribution in the whisper content.
- ☐ All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Whisper users are likely to interact with complete strangers who are highly unlikely to interact with each other.

5) What is the primary purpose of Gephi software?

1 point

- ☐ Video Editing
- ☐ 3D Modeling
- ☒ Network Visualization and Analysis
- ☐ Music Composition

Yes, the answer is correct.

Score: 1

Accepted Answers:

Network Visualization and Analysis

6) Why studying username change behaviour is/are useful for social media researchers? **1 point**

- ☒ This is one of the unique attributes of the user
- ☒ It is usually homogeneous
- ☒ The number of characters and length of the username is restricted
- ☒ It is the publicly available attribute

Yes, the answer is correct.

Score: 1

Accepted Answers:

This is one of the unique attributes of the user

It is usually homogeneous

The number of characters and length of the username is restricted

It is the publicly available attribute

7) In the network graph of Twitter, where nodes are users, the in-degree of the node would be

1 point

- ☒ Number of followers on Twitter
- ☐ Number of people you follow
- ☐ Both a and b
- ☐ None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Number of followers on Twitter

8) Which of the following is/are anonymous social networks?

0 points

- ☒ Secret
- ☒ Wickr
- ☐ Yak yak
- ☐ Blind

Partially Correct.

Score: 0

Accepted Answers:

Secret

Wickr

Yak yak

Blind

9) A scale-free network can be one having

1 point

- ☒ Power law degree distribution
- ☐ Zipf's law
- ☐ Pareto principle
- ☐ All of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

All of the above

10) Consider the below situation

1 point

Imagine you're a student in a university, and you decide to survey to determine the number of friends each of your classmates has on social media. You ask everyone to report the number of friends they have on one popular social media platform (say Facebook).

When you collect the data and calculate the average number of friends reported by your classmates, 300 friends. However, when you individually examine the number of friends reported by each of your classmates, you notice that many of them have fewer than 300 friends, perhaps ranging from 50 to 200 friends.

Why did you observe such a phenomenon?

- ☐ Most of the individuals have reported it wrong in the report.
- ☒ Few individuals have exceptionally high friend counts (outliers) that skew the average upward.
- ☐ There is an error in individual calculations. It is impossible to have 300 friends on average if many individuals have fewer than 300 friends.
- ☐ None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Few individuals have exceptionally high friend counts (outliers) that skew the average upward.

