

 Parul University 		Parul University Faculty of Engineering and Technology Parul Institute of Engineering and Technology Computer Science Engineering – Cyber Security Department			
Subject Name	Privacy and Security in Online Social Media		A. Y	2025-26	
Subject Code	03M10002UE01		Semester	2nd	
Assignment-1					
Sr No	Question		COs	B.T	Competence
Unit 1: Introduction to Online Social Networks					
1	Define Online Social Networks (OSNs). Explain their importance in modern society with examples.		CO1	BT1	Remember
2	Describe the evolution of Online Social Networks from early platforms to modern AI-driven platforms.		CO1	BT2	Understand
3	What types of data can be collected from social networks? Explain each type with examples.		CO1	BT4	Analyze
4	Explain different methods used for data collection from social media platforms.		CO1	BT2	Understand
5	Discuss the role of Social Media APIs in data extraction and analysis.		CO1	BT1	Remember
6	What are the major challenges faced in Online Social Networks? Explain privacy and security issues in detail.		CO1	BT2	Understand
7	Explain the opportunities created by OSNs in education, business, healthcare, and research.		CO1	BT2	Understand
8	What are the common pitfalls of Online Social Networks? How do they affect users and society?		CO1	BT2	Understand
9	Compare traditional communication systems with Online Social Networks.		CO1	BT3	Apply
10	Explain ethical issues related to data collection from social networks.		CO1	BT2	Understand
11	Write a short note on Big Data and Artificial Intelligence in Online Social Networks.		CO1	BT3	Apply

12	How can organizations use social network data for decision-making and trend analysis?	CO1	BT3	Apply
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Assignment-2

Unit 2: Data Collection and Analysis in OSNs

1	What is data collection in OSNs?	CO1	BT2	Understand
2	Name any two techniques for collecting social media data.	CO1	BT1	Remember
3	What is a Social Media API?	CO1	BT2	Understand
4	Define web scraping.	CO1	BT2	Understand
5	Why is ethical data collection important?	CO1	BT3	Apply
6	What is data anonymization?	CO1	BT3	Apply
7	What is data cleaning?	CO1	BT4	Analyze
8	Give two examples of data processing tasks.	CO2	BT1	Remember
9	What is sentiment analysis?	CO2	BT2	Understand
10	Mention one real-life case study of social media data usage.	CO2	BT3	Apply
11	What is streaming data collection?	CO2	BT2	Understand
12	Why is data preprocessing necessary before analysis?	CO2	BT3	Apply

Assignment-3

Unit 3: Trust, Credibility, and Reputation in Social Systems

1	What is trust in online communities?	CO3	BT1	Remember
2	Define credibility in social systems.	CO3	BT2	Understand
3	What is a reputation system?	CO3	BT2	Understand
4	Give one example of a reputation system.	CO3	BT2	Understand
5	How does reputation affect user behaviour?	CO3	BT2	Understand
6	What is misinformation?	CO3	BT4	Analyze
7	Define fake news.	CO3	BT3	Apply
8	Mention one method to detect fake news in OSNs.	CO3	BT3	Apply
9	Why is fake news harmful to society?	CO3	BT3	Apply
10	What is user verification in social media?	CO3	BT2	Understand
11	Name one method to enhance trustworthiness online.	CO3	BT4	Analyze
12	Why is trust important in social networks?	CO3	BT2	Understand

Assignment-4

Unit 4: Security, Privacy, and Fraud Detection in OSNs				
1	What is the role of online social media in law enforcement?	CO4	BT1	Remember
2	What is information disclosure?	CO4	BT2	Understand
3	What is information revelation?	CO4	BT2	Understand
4	Define information privacy in OSNs.	CO4	BT2	Understand
5	Mention one effect of privacy violation.	CO4	BT2	Understand
6	What is phishing in OSNs?	CO4	BT3	Apply
7	Give one example of a phishing attack.	CO4	BT4	Analyze
8	Name one countermeasure against phishing.	CO4	BT2	Understand
9	What is a fake profile?	CO4	BT2	Understand
10	How can fraudulent entities be identified in OSNs?	CO4	BT3	Apply
11	Why is privacy protection important on social media?	CO4	BT3	Apply
12	What is fraud detection in online networks?	CO4	BT2	Understand

Assignment-5

Unit 5: Research and Practical Applications

1	What is the purpose of reviewing key topics in OSNs?	CO5	BT2	Understand
2	What is a real-world OSN case study?	CO5	BT2	Understand
3	Give one example of an OSN platform used for analysis.	CO5	BT2	Understand
4	Why are case studies important in OSN research?	CO5	BT2	Understand
5	What is a research paper?	CO5	BT2	Understand
6	Mention one topic commonly studied in OSN research.	CO5	BT3	Apply
7	What is online security in OSNs?	CO5	BT3	Apply
8	What is privacy in social networks?	CO5	BT4	Analyze
9	Give one example of a security threat in OSNs.	CO5	BT4	Analyze
10	What is a future trend in OSN security?	CO5	BT2	Understand
11	Why is research important for improving OSNs?	CO5	BT3	Apply
12	How do practical applications benefit users of social networks?	CO5	BT3	Apply