

Module 5 Assignment – Case Studies for Different Student Profiles

Case Study 1: Teacher (Fairly Easy) – Managing Digital Footprints in Education

Scenario: Managing Digital Lesson Plans

You are a history teacher preparing a unit on World War II. You have gathered various digital materials (articles, PowerPoint slides, videos, and worksheets) from multiple sources. However, your files are Scenario: A Teacher's Online Presence & Reputation

You are a high school teacher who has been applying for a new job. You realize that your future employer might check your digital footprint before hiring you.

Additionally, your students are sharing memes and edited photos of you online, which could damage your reputation.

Assignment Tasks:

1. Analyze Your Digital Footprint

- Search for your name on Google, Facebook, LinkedIn, and Twitter.
- Identify public vs. private content.

2. Clean Up & Secure Your Online Presence

- Adjust privacy settings on social media platforms.
- Remove or hide any potentially inappropriate content.
- Document changes you made to secure your online reputation.

3. Create a Professional Online Presence

- Build or update a LinkedIn profile with a professional description.
- Share an educational blog post or a teaching-related resource to improve visibility.

4. Write a Reflection Report

- What surprised you the most about your digital footprint?

- How would this affect your career as a teacher?
- What steps will you take in the future to manage your online presence?

Case Study 2: Nursing Student (Moderate Difficulty) – Patient Privacy & Online Ethics

Scenario: Protecting Patient Confidentiality Online

You are a nursing student working in a hospital. One of your classmates posts a picture on Instagram from the hospital, which accidentally includes confidential patient information (a name and diagnosis on a whiteboard).

A journalist sees the photo and contacts your classmate, asking for more details about the hospital's patient care. Your classmate is unsure how to respond.

Assignment Tasks:

1. Identify the Privacy & Ethical Issues

- What privacy laws are violated (e.g., GDPR, HIPAA)?
- What are the professional consequences of sharing patient data online?

2. Analyze the Digital Footprint of the Post

- How far has the post been shared or liked?
- Could removing the post completely erase it from the internet?

3. Recommend the Best Action Plan

- What steps should your classmate take to remove the post?
- How should they respond to the journalist?
- How should hospital staff educate students about digital ethics?

4. Write a Professional Response to the Journalist

- Draft a professional email response explaining why patient confidentiality is critical.

Ensure your response is ethical, professional, and respectful.

Case Study 3: Cybersecurity Student (Advanced) – AI Bias & Algorithmic Ethics

Scenario: Algorithmic Bias in Online Hiring & AI Decisions

You are a cybersecurity consultant working with a tech company that is developing an AI-powered hiring system.

One of your colleagues notices that the AI system consistently rejects female applicants for technical positions but doesn't reject male applicants at the same rate.

You suspect that the AI algorithm has learned gender biases from past hiring data.

Assignment Tasks:

1. Investigate the Bias in the AI System

- What data might have caused the AI to develop biased hiring patterns?
- How do filter bubbles and algorithmic personalization reinforce bias?

2. Analyze the Ethical & Legal Implications

- Does this bias violate anti-discrimination laws?
- What are the potential legal consequences for the company?
- How could this AI impact diversity in the workplace?

3. Propose Solutions to Fix the Bias

- What data adjustments could prevent gender bias?
- How can AI engineers train algorithms to be more fair?
- What transparency policies should companies implement for ethical AI?

4. Write a Report for the Company's HR Department

- Explain the issue, legal risks, and recommendations.

Suggest an AI ethics framework to prevent future bias.

Final Deliverables & Student Expectations

Students select one case study based on their field of study.

Submit a 1-2 page report including:

- Step-by-step analysis of ethical & privacy issues.
- Recommended actions & reflections.
- Short professional communication (if required).