

4565: Computing Foundations for a Digital Age

Unit 5

Ethical Technology Case Study – Student Outline

Name: _____

Date: _____

1. Technology Overview

What technology are you analyzing?

- Name of the technology:
- What does it do?
- Where or how is it used in real life?

Explain how it works in a few simple steps:

Give at least one real-world example of this tech in action:

2. Ethical Concerns

What ethical dilemmas or questions come up with this tech?

Describe at least one concern or challenge:

Why is it important to think about this?

3. Accessibility & Usability

- Is this technology easy for everyone to use?
- Who might have trouble using it (and why)?
- How could it be made more inclusive?

4. Privacy & Data

- What kind of data does this tech collect (if any)?
- Do users know what's being collected?
- Do they get a choice?

5. Legal Considerations (Copyright, IP, etc.)

- Does this tech involve someone's creative work, inventions, or personal ideas?
- Are there copyright or patent issues to think about?

6. Trade-Offs & Personal Stance

What are some good things about this tech?

☒ Pros:

What are some downsides or risks?

⚠ Cons:

.

Do you think this tech is worth using overall? Why or why not?

7. Real-World Connection

How does this technology affect people's lives (maybe even yours)?

What's one thing YOU would change or improve about it?

Prompts you can search

Technology in Schools

- “Using ChatGPT in classrooms ethical concerns”
- “AI tools in education pros and cons”
- “Facial recognition in schools debate”
- “Surveillance cameras in schools ethical issues”
- “Schools banning smartphones ethical reasons”

Artificial Intelligence & Automation

- “Ethical issues with AI-generated art”
- “Self-driving cars ethical dilemmas”
- “Can robots replace human workers ethics”
- “Bias in AI decision-making examples”
- “AI hiring tools discrimination”

Privacy and Surveillance

- “Smart home devices listening privacy concerns”
- “Is Google tracking me ethical concerns”
- “Privacy concerns with wearable fitness trackers”
- “Location tracking apps privacy issues”
- “Ethical concerns of facial recognition in public places”

Cybersecurity and Digital Footprints

- “Teens digital footprint college admissions”

- “Social media posts affecting future job”
- “Hacked student data in schools”
- “Cyberbullying consequences in schools”
- “AI used in cyberattacks ethics”

Emerging Technology Dilemmas

- “Deepfake videos ethical concerns”
- “Cloning pets ethical controversy”
- “Virtual reality addiction ethics”
- “Should AI have human rights”
- “Ethics of brain-computer interfaces”

Health and Tech

- “Using AI to diagnose patients ethics”
- “Genetic testing privacy concerns”
- “Is it ethical to track health with apps”
- “Technology and mental health ethical debate”