

Internet of Things

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ITEC 101: Thriving in the Tech Age

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Section I: The Internet Of Things Explained

Define Internet of Things

The Internet of Things is a term coined to refer to the interconnection of everyday physical objects to the internet, allowing them to collect and exchange data with other connected devices.

Identify an IoT device and provide the following information:

An example of an IoT device would be an automatic animal feeder controlled by a smartphone. This is helpful so that your pet can eat at the same time every day. It can easily be changed from the owner's smartphone.



You plug in the feeder into an electrical outlet. You will need to pair it with the Geeni app to detect it. The Geeni app will automatically detect the network that your smartphone is connected to. Once it detects it it will prompt for your wifi password. Twist open top cover to add food to the tank. Place the feeder on a stable floor.

How will IoT devices change the way we go about our daily lives in the future?

IoT devices will continue by enhancing convenience, efficiency, and connectivity. We'll have smarter homes with automated control of lights, appliances, and security. Shopping experiences will be personalized and checkout-free, and agriculture will see precision farming. The workplace will become more productive with smart offices. Education will be more interactive. Entertainment will be immersive, and energy usage will be optimized. However, privacy and security concerns will increase.

Section II: Values And Ethics

Explain in detail ethical or social responsibility issues related to the device your described in

Section I.

Smart feeders can potentially lead to pet neglect if they are relied upon too heavily. Pet owners may use these devices as a substitute for human interaction and neglect spending quality time with their pets.

Explain how the device could impact personal privacy and security?

Smart feeders are connected devices, and their data may be vulnerable to hacking or misuse. Like all electronic devices, smart feeders can malfunction or experience technical issues.

What are some safeguards or precautions that consumers can take when using the device you described?

If a feeder fails to dispense food at the scheduled time, it could potentially lead to hunger or distress for the pet.

What are some safeguards and precautions that manufacturers can take to protect consumers who use the device?

Manufacturers could ensure cybersecurity measures to protect user data, including feeding schedules and personal information. Encrypt data in transit and at rest, and regularly update device firmware to address security vulnerabilities.

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