

# INTERNET OF THINGS



Ntsapi Betta

# History

- IoT concept introduced in the late 1990s.
- Term coined by Kevin Ashton in 1999.
- Rapid growth due to advancements in networking, sensors, and data processing.

# Advantages of IoT:

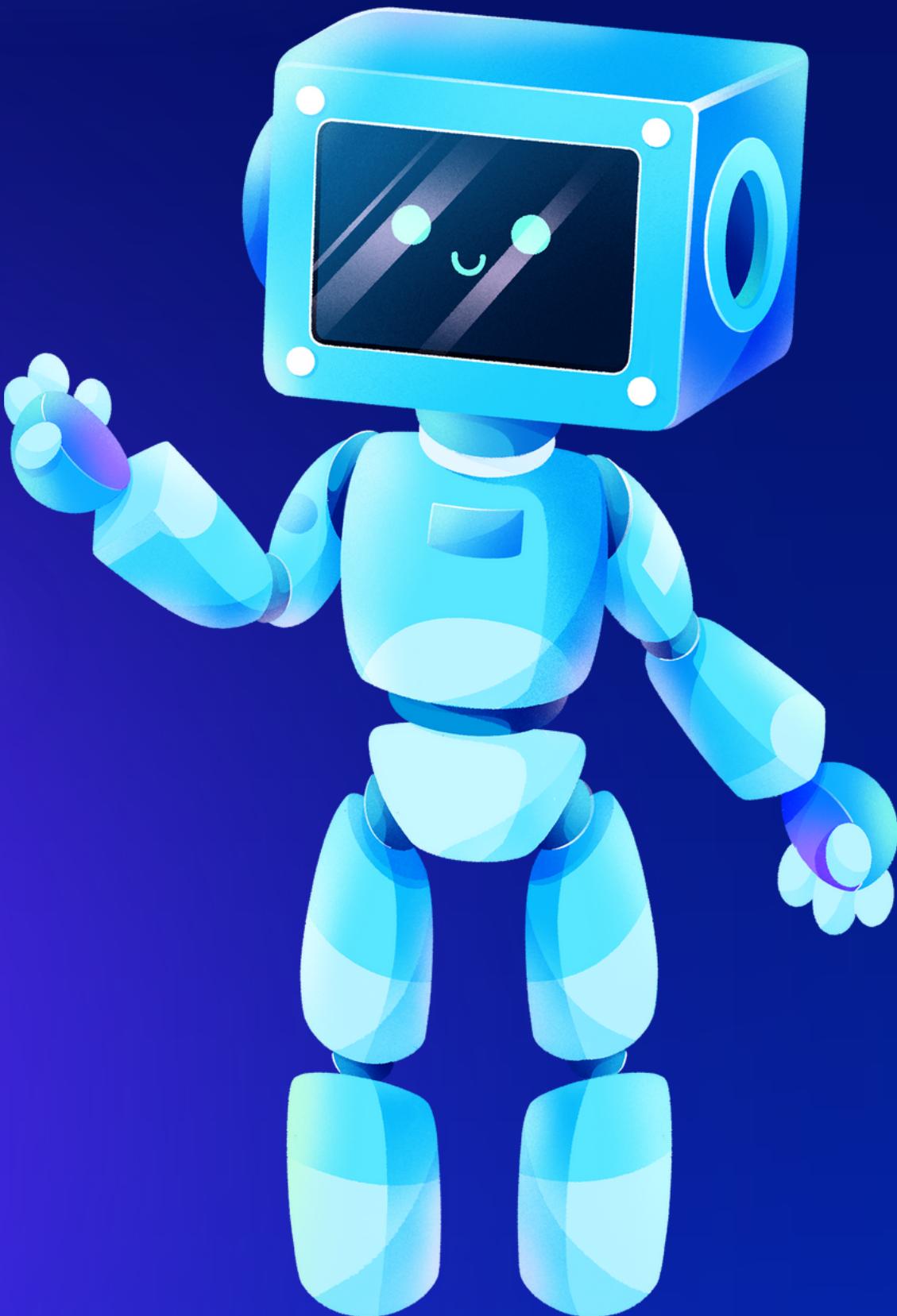
- Enhanced efficiency and productivity.
- Improved decision-making through data analytics.
- Automation of tasks leading to cost savings.
- Enables remote monitoring and control.

# Disadvantages

- 1 Security and Privacy concerns
- 2 Vulnerability to cyber attacks
- 3 Reliance on internet connectivity  
may lead to disruptions.
- 4 Potential Job displacement due  
to automation

# RELATION BETWEEN IOT AND CYBERSECURITY

- IOT DEVICES OFTEN LACK ROBUST SECURITY MEASURES
- INCREASED CONNECTIVITY EXPANDS THE ATTACK SURFACE FOR CYBER THREATS



# Some Events of IoT attacks:

- Mirai botnet DDoS attacks in 2016.
- Stuxnet malware targeting industrial IoT systems.
- WannaCry ransomware exploiting vulnerabilities in IoT devices.

# Ways to Prevent IoT Devices from Hacking:

- keep Devices Updated
- Use strong, unique passwords for each device.
- Implement network segmentation.
- Regularly audit and monitor IoT devices.

# Wireless-N Internet Home Monitoring Camera

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# Sign in to access this site

Authorization required by http://68.235.229.148:8083

Your connection to this site is not secure

Username

Password

Sign in

Cancel

**108.27.214.206** ↗

pool-108-27-214

HTTP/1.1 200 OK

-206.nycmny.fio

Server: thttpd/2.25b 29dec2003

s.verizon.net

Content-Type: text/html; charset=iso-8859-1

Verizon

Date: Sat, 27 Jan 2024 10:46:07 GMT

Business

Last-Modified: Wed, 25 Mar 2015 03:29:59 GMT

United

Accept-Ranges: bytes

States, Corona

Connection: close

Content-Length: 472

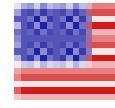
<!DOCTYPE HTML PUBLIC "-//IIBC//DTD HTML 4.0 Transition"

100



**47.185.14.232** 

Frontier  
Communications  
of America, Inc.

 United  
States, Fort  
Worth

HTTP/1.1 200 OK

Server: thttpd/2.25b 29dec2003

Content-Type: text/html; charset=iso-8859-1

Date: Wed, 17 Jan 2024 12:02:22 GMT

Last-Modified: Fri, 30 Oct 2009 01:19:49 GMT

Accept-Ranges: bytes

Connection: close

Content-Length: 4132

<!DOCTYPE HTML PUBLIC "-//IIBC//DTD HTML 4.0 Transitiona...>





# THANKS FOR LISTERNING

NTSAPI