





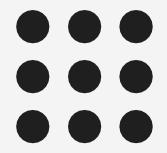
Kurumbapalayam(Po), Coimbatore – 641 107
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### **Department of Information Technology**

**Course Name – Internet of Things** 

III Year / V Semester

Unit 5- AI IN INTERNET OF THINGS







# The role of Artificial Intelligence in IOT





#### What is Artificial Intelligence?

Artificial Intelligence is the technology with the help of which machines can perceive, learn, solve complicated problems and make analysis just like humans. The machines exhibit traits similar to that of humans. 3 main steps constitute the whole functioning of AI-For example- self-driving cars can decide which direction to take, the speed, etc.







#### What is the Internet of Things(IoT)?

The short form of the internet of things came into existence when in 1999, **Kevin Ashton** mentioned it in his presentation of Procter and Gamble.

IoT refers to the wide assemblage of physical devices connected to the internet via a wireless network to collect and share data. Here are some of the examples of IoT – air conditioners, smartwatches, and smart cars.

A survey conducted by Business Insider gave jaw-dropping insights that by 2027 the number of IoT devices would reach to be 41 billion as compared to 9 billion in 2009.







- Artificial Intelligence (AI) and the Internet of Things (IoT) are the next level technologies.
- Al makes the machine learn from its experiences and manage with new data.
- Al is not a new technology but due to heavy use of big data, it is gaining popularity again. Similarly, IoT is the combination of more than one devices or sensors together over the internet.



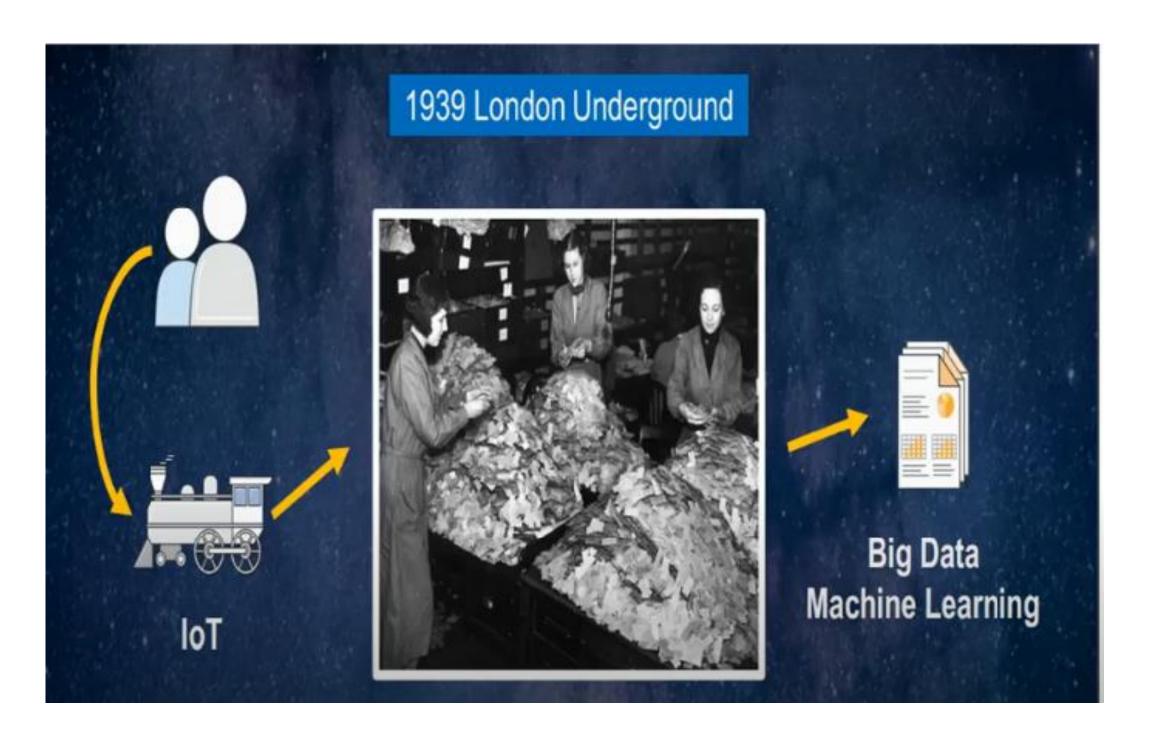


#### Artificial intelligence and IoT helps to achieve the following:-

- · Obtaining relevant and meaningful insights from the data by analyzing it.
- · This union ensures accurate forecasts.
- Confidentiality of data is maintained.
- Personalization becomes easy.
- Ensures utmost security against cyber attacks.



















## Collaboration of IOT and Al

