



SNS COLLEGE OF ENGINEERING



Kurumbapalayam(Po), Coimbatore – 641 107

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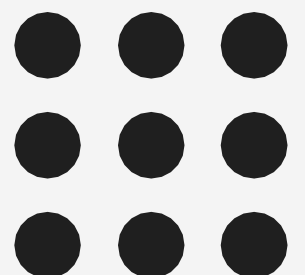
Approved by AICTE, Recognized by UGC & Affiliated to Anna University, Chennai

Department of Information Technology

Course Name – Internet of Things

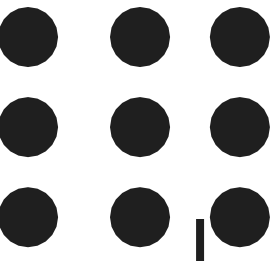
III Year / V Semester

Unit 3- INTERNET OF THINGS CHALLENGES





Pairing IoT with AI



- The Internet of Things is simply an ecosystem of various objects that are connected through the Internet. These objects that range from cell phones and wearables to machines and valves generate a constant and a vast amount of data every day.
- The role of artificial intelligence in the current IoT scenario is to use this humungous data to extract meaningful insights and help IoT enabled setups to derive greater value.
- The leading vendors of IoT platforms like Microsoft, Amazon, Oracle, IBM, and Salesforce have started integrating AI capabilities such as machine learning into their IoT applications.
- From large organizations to start-ups, companies across industries are opting for AI focused IoT solutions. These companies consider that AI is reinventing IoT and will help to unleash its true potential.



How is pairing IoT with AI technology helping organizations?

The fusion of AI and IoT turns out to be the key to success for companies in various sectors. Machine learning, an essential component of AI makes the data collected using IoT more actionable. It helps to:

- Generate predictions,
- Improve operational efficiency,
- Reduce downtime, and
- Enhance risk management.



Advantages of AI-powered IoT

- **Avoiding unplanned downtime** — Utilizing examination to foresee hardware disappointment early to plan organized support methodology also called Predictive Maintenance can help moderate the harming financial aspects of spontaneous personal time.
- **Growing operative efficiency**—The Artificial Intelligence models can anticipate working circumstances and distinguish boundaries to be balanced on the hover to keep up ideal results which will help improve operative efficacy.
- **Empowering better products and services** — Individual Language Processing to exchange with tackles, AI-controlled mechanisms, and automatons, Navy administration are a portion of the manners in which that Artificial Intelligence will help in improving the current items.
- **Enhancing risk management** — Along with AI and IoT, a few bids are serving associations comprehend and anticipate an assortment of dangers just as computerize fast reaction.