Artificial Intelligence And Internet Of Things -The Best Partners For Future Growth
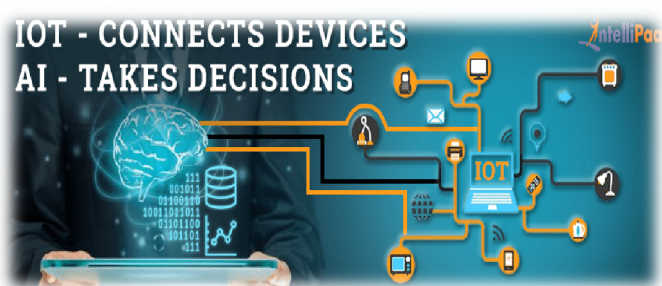
BY E.Keerthi Reddy

H.Yamuna

Abstract

Integrating AI into the IoT networks is becoming a prerequisite for success in today's IoT-based digital ecosystems. Businesses must move rapidly to identify how they'll drive value from combining AI and IoT—or face playing catch-up in years to come. They need to combine IoT with rapidly-advancing AI technologies to simulate intelligent behavior and make well-informed decisions with little or no human intervention. The total poster depicts how the AI and IOT works, there applications, there future scope and the challenges associated with them.
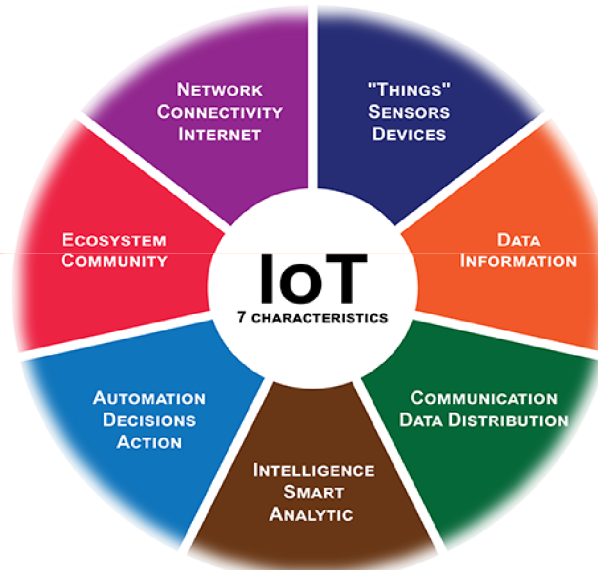
How AI + IOT best

- IoT connects the various devices and collect a large amount of data. This sheer amount of data produced by the various devices can not be processed by the human intelligence and hence the Artificial intelligence came into the picture.
- Hence the IOT collect the large amount of data and it is processed by the Artificial intelligence

AI as the catalyst of IOT

For companies to realize the full potential of IoT enablement, they need to combine IoT with rapidly advancing Artificial Intelligence technologies, Which enable 'smart machines' to simulate intelligent behaviour and make well-informed decisions with little or no human intervention.
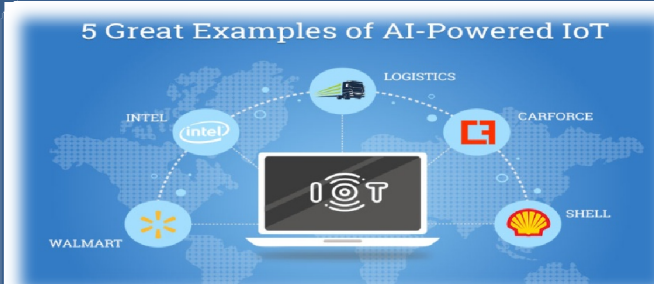

Characteristics

AI is the key to unlock the potentials of the IoT. Above characteristics can be implemeted well by the IoT through AI.

Advantages of AI powered IoT

MORE ADVANTAGES:
- Enhancing risk management
- Enabling improved product and services
- Increasing operational efficiency
- Avoiding the unplanned downtime

Life-changing AI –enabled IoT

AI in IOT for better future

- Security and access the devices
- Emotional analysis
- Home automation to create smart homes
- Smart cities
- Healthcare Industry
- Automobile Industry
- Finance Industry
- Visualization of the streaming data
- Predictive and advanced analytics
- Agriculture

Associated challenges

- Compatibility
- Complexity
- Ethical and legal issues
- Aritificial stupidity
- Privacy,security and safety

Conclusion

- While IoT is quite impressive, it really doesn't amount to much without a good AI system. Both technologies need to reach the same level of development in order to function as perfectly as we believe they should and would. Scientists are trying to find ways to make more intelligent data analysis software and devices in order to make safe and effective IoT a reality. It may take some time before this happens because AI development is lagging behind IoT, but the possibility is, nevertheless, there.
- Integrating AI into IoT networks is becoming a prerequisite for success in today's IoT-based digital ecosystems. So businesses must move rapidly to identify how they'll drive value from combining AI and IoT—or face playing catch-up in years to come.

Acknowledments