

Bharathiyar institute of engineering for women

IOT BASED

AUTOMATION

Presented by

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industries through automation and connectivity. This presentation explores the impact of IoT on various sectors and the potential for future growth.

- IOT IN MANUFACTURING
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- IoT is transforming manufacturing
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- processes by enabling real-time
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- monitoring, predictive maintenance,
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- and autonomous operations. This leads
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- to improved efficiency, reduced
- 
- downtime, and cost savings.

- IOT IN HEALTHCARE
- In the healthcare sector, IoT facilitates
- remote patient monitoring, smart
- medical devices, and efficient resource
- management. This results in improved
- patient care, reduced errors, and better
- operational efficiency.

- IOT IN AGRICULTURE
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- By leveraging IoT technology, agriculture
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- benefits from precision farming, smart
- 
- irrigation, and livestock monitoring. This
- 
- leads to increased productivity, resource
- 
- optimization, and sustainable practices.

- IOT IN TRANSPORTATION
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- The transportation industry is
- 
- revolutionized by IoT through fleet
- 
- management, smart logistics, and
- 
- vehicle telematics. This results in
- 
- optimized routes, fuel efficiency, and
- 
- enhanced safety measures.

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- IOT IN RETAIL
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- Retail experiences a transformation
- 
- with IoT-enabled inventory
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- management, personalized marketing,
- 
- and seamless customer interactions.
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- This leads to improved customer
- 
- satisfaction, operational efficiency, and
- 
- data-driven decision-making.



- IOT IN ENERGY
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- The energy sector benefits from IoT by
- 
- enabling smart grid management,
- 
- predictive maintenance, and renewable
- 
- energy integration. This results in
- 
- optimized energy distribution, reduced
- 
- downtime, and sustainable practices.

- IOT SECURITY CHALLENGES
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- As IoT adoption grows, security challenges
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- such as data privacy, device
- 
- authentication, and network vulnerabilities
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- become critical. Addressing these
- 
- challenges is essential to ensure the
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- integrity and safety of IoT systems.

- CONCLUSION

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- The widespread adoption of IoT-based automation is

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- revolutionizing industries, driving efficiency, innovation, and

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- sustainability. Embracing IoT presents immense opportunities for

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- growth, while addressing security and interoperability challenges is

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- essential for realizing its full potential.

- Thanks!!!