



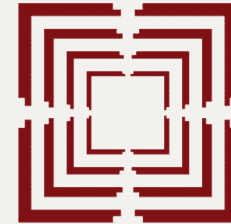
**Ahmedabad
University**

Technology Vision 2047 - A Brainstorming Workshop

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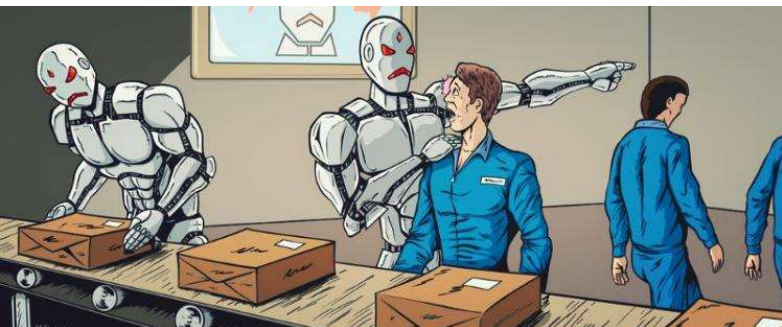




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Disclaimer:

Predicting exact issues beyond 2032 is challenging, but based on current trends projections are in the following slides.



Issue: **Advanced automation and job displacement**

Solution: Industry 4.0 can create new jobs, novel markets, Novel Opportunities.

Reskilling and up skilling workers

https://imageio.forbes.com/blogs-images/cognitiveworld/files/2018/08/1_GQm0ZlcZVltBd_9XwJGyNw-S1.jpg?format=jpg&width=960



Issue: **AI ethics and regulation**

Solution: Built Technology with ethical considerations FAT (fairness, accountability, transparency). Collaborative efforts industries, governments, and academia for regulatory framework

<https://sundayguardianlive.com/news/india-needs-bridge-increasing-digital-divide>

<https://builtin.com/artificial-intelligence/ai-ethics>

Issue: **Digital divide**

Solution: Development of affordable, accessible infra and accessibility

Equitable access across region and social class.





<https://sundayguardianlive.com/wp-content/uploads/2020/05/Kundan-digital-divide-edited.png>

Issue: **Cybersecurity threats**

Solutions: Use AI-driven threat detection and response systems, block chain technology and Advanced Encryption.



Issue: **Environmental sustainability**

Solution: Smart manufacturing, IoT, and data analytics → optimize resource usage, reduce waste

https://upload.wikimedia.org/wikipedia/en/thumb/3/31/Sustainable_Development_Goals_logo.svg/1200px-Sustainable_Development_Goals_logo.svg.png

**Upskilling
& Reskilling**



<https://www.edtechreview.in/research/where-s-the-upskilling-and-reskilling-market-headed/>



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Workforce up skilling and reskilling:

Solution: personalized learning and training programs, leveraging AI, virtual reality, and online platforms, Metaverse, Omniverse

Supply Chain Resilience



Issue: **Supply chain resilience**

Solution: Real-time data analysis, IoT-enabled tracking, and AI-driven predictive analytics for adapting to disruptions

<https://www.turningcloud.com/blog/wp-content/uploads/2021/08/supply-chain-resilience-1.jpeg>

Issue: **Data privacy and ownership**

Solution: Blockchain technology, encryption methods, and decentralized data storage systems maintaining transparency and traceability.



<https://images.indianexpress.com/2015/02/fb1.jpg?w=389>



Issue: **Human-machine collaboration**

Solution: Developing intuitive interfaces, cobots (collaborative robots) to work with humans, and advanced AI systems that support human decision-making.

https://media.licdn.com/dms/image/C4E12AQHyncj3rUo_7Q/article-cover_image-shrink_423_752/0/1520093088838?e=1685577600&v=beta&t=C5QgkOLou4AuokU9DRuPwrlB8V0dRHOLxd6706nnc

