









I am Luja Shakya

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Revolution

Let's start with a BigBang in Industrial state.



Before learning 4.0

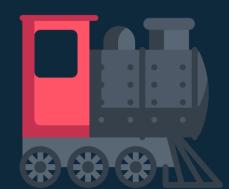
Let's start with 1.0, 2.0, 3.0





Industrial Revolution 1.0

- New manufacturing processes using water and steam
- Steam and Coal







Industrial Revolution 2.0



- ♦ The Technological Revolution
- Superior electrical technology
- Oil Sector high raise.



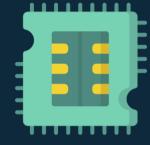






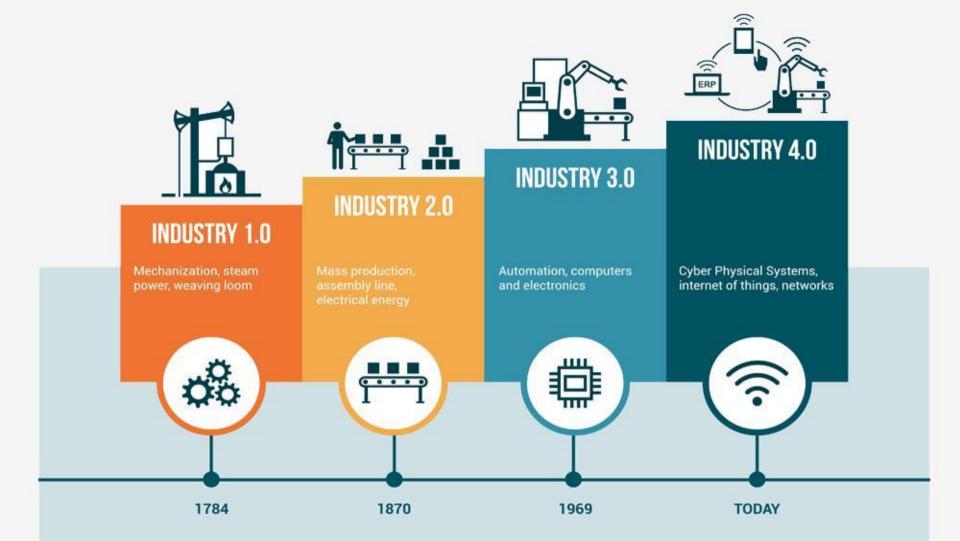
Industrial Revolution 3.0

- First computer era
- electronics and IT
- automation in production
- Programmable Logic Controllers













INDUSTRY 4.0

What's the Big Deal?

Cyber Physical Systems, internet of things, networks





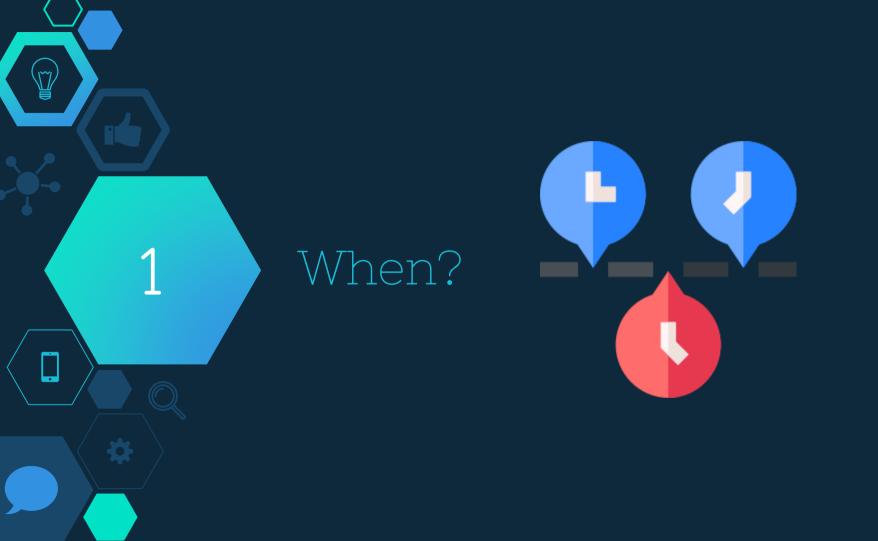


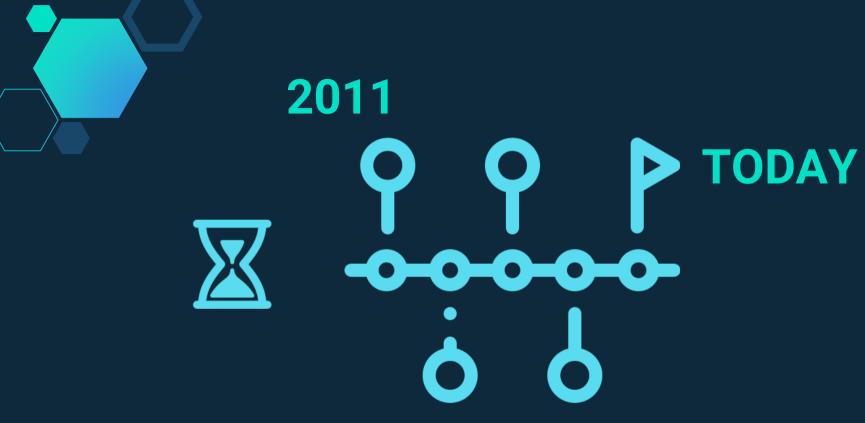
Every Industrial Revolution has made some skill in worker unnecessary.

Many of unskilled as well as semi skilled workers may lose their career due to it.

With some advanced Robot as a mechanical companion, Tedious Jobs can be promptly replaced with highly efficient Machines.















AI in Industrial Revolution v4.0

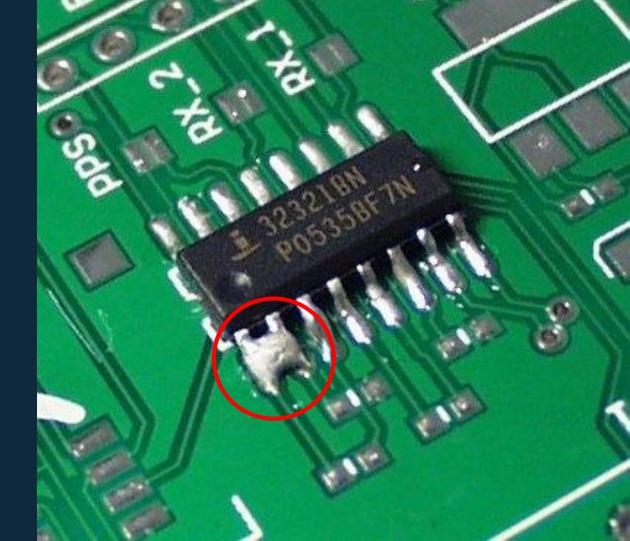


- All about Proficiency
- Error Detection
- Analyzing Performance
- Learning to Improve
- Enhance the Production



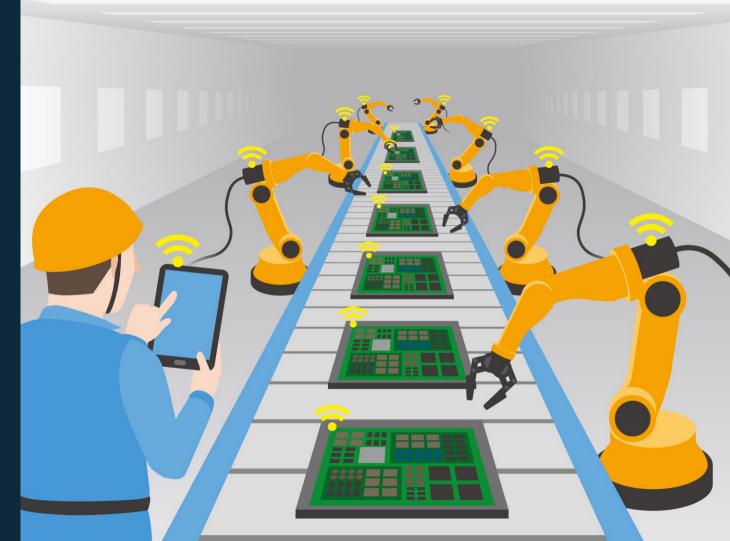


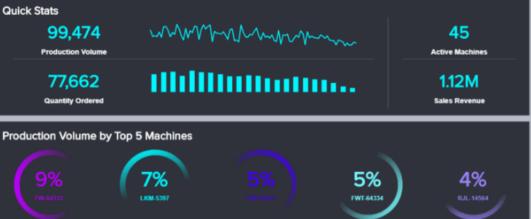
Error
Detection in
Soldering

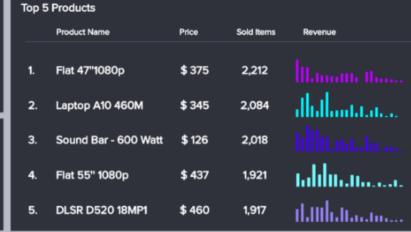




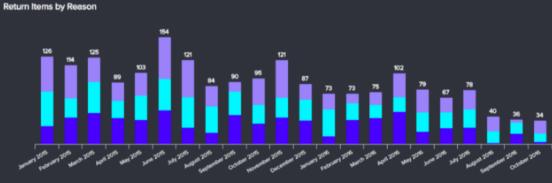
Fast and Reliable Production











Clear and exact Analytics In production





Benefits of AI in Industry.



- Undeviating Automation
- 24x7 Production
- Safer Operational Environment
- Condensed Operating Costs





- Create rapid, data determined decisions
- Minimize operational costs
- Facilitate superior scalability



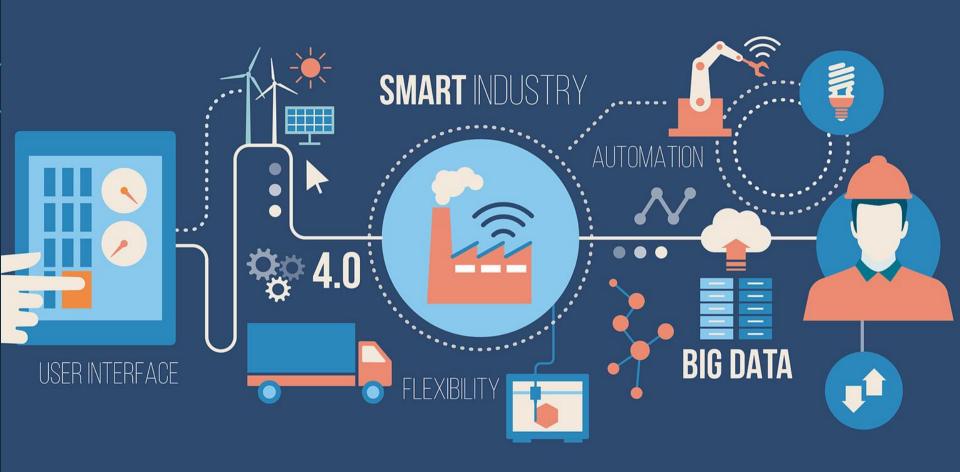






- Era of smart machines, storage systems and production facilities
- Industrial Internet of things (IIoT)
- Cyber-physical system
- The Internet of things (IoT)
- Cloud computing
- Cognitive computing







Traditional

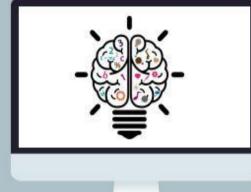


Cognitive



Your Stock Levels for Store #007 should be 375 Units





ML Automation



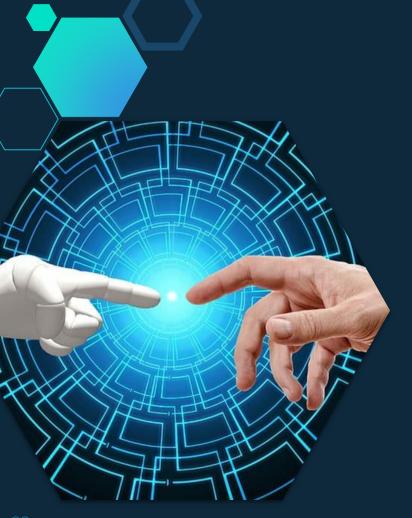
Commercial Way





ALEXA





Hands on 5.0 yet?

Era for changing the technology has already begun.

Man and Machine reconcile











5G Network







References:

- "The Future of Artificial Intelligence in Manufacturing Industries", Plantautomationtechnology.com, 2020. [Online]. Available: https://www.plantautomation-technology.com/articles/the-future-of-artificial-intelligence-in-manufacturing-industries





Thanks!

Any questions?

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