Automated Surveillance:

- AI Surveillance = FRT (Facial Recognition Technology)
- Object Recognition → Comes from computer vision
- 176 countries are using AI for surveillance.
- Facial recognition system – Digi Yatra.
- Smart policing → Past data will be sent & analyzed, becoming predictive. Machine Learning will augment these systems
- China is a major driver of AI surveillance:
- Huawei / Hikvision / Dahua & ZTE: Chinese technologies.
- China's Belt and Road Initiative (BRI): 36 out of 63 countries have signed onto BRI.
- Chinese supplies the most surveillance tech, widely used in Western countries
- Japan's NEC provides surveillance technology to 14 countries.

Soft Loans :

- Chinese surveillance technologies are affordable. India also buys them.
- USA: Provides surveillance tech to 32 countries.
- IBM: Helps create AI models for surveillance.
- Palantir, CISCO also participate.
- Liberal Democracies – France, Germany, Israel, and Japan are actively proliferating these technologies
- Ethnocracy – Countries have primarily ethnicity-based governance.
  → Can't be a 'liberal democracy.'
- Many political parties have joint efforts in Japan.
  Liberal democracies → Create competition (hence better governance).

- Liberal Democracies:
  - Are major users of AI surveillance
  - 51% of advanced democracies.
  - 37% of closed authoritarian states.

- Sometimes, governments deploy these surveillance systems without complete knowledge of their purposes.
- Delhi – A state trying to get more and more cameras for better surveillance because of the pressure.
- Firewall of China – An example of mass surveillance.
- Saudi Arabia & Israel – Also engage in extensive surveillance practices.
- ML (Machine Learning) helps in mass surveillance. It stealthily creates networks and helps generate data lakes – a pinpoint network of surveillance.
- Edward Snowden → PRISM project revealed
- Reinforce repression to obtain certain political objectives.
- Issues with FRT – Bias and errors.
  - Can't be deployed without addressing them.
  - Retraining models will be required, as the composition of facial datasets keeps changing with time.
- FRT are probability-based / stochastic. Errors may violate our rights.
- When more crime is reported from a certain place, then ML magnifies / multiplies it.
- Project Lumen – Govt. shutdown notices –
  Countries telling social media sites about surveillance.