



# TECHNOLOGY TRENDS 2021

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# Top Trending Technologies in 2021

- COVID-19 crisis has brought about years of change in the way companies in all sectors and regions do business.
- Corporate giants like **amazon**, **Google**, **facebook**, **NETFLIX**, **TESLA**, etc. dominates their respective industries.
- A *vertical dominated by software and hardware vendors* to an *economic horizontal*, where the way technology is used is far more significant than the technology itself.



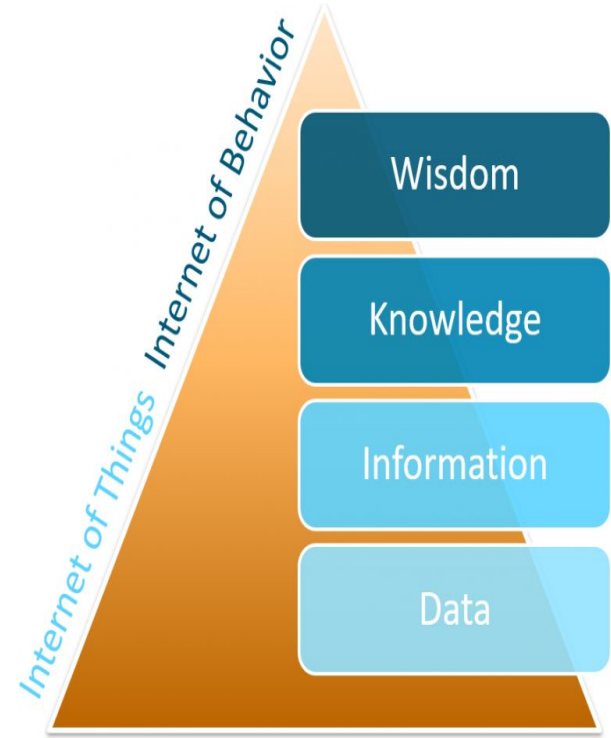
# 1. 5G Technology

- **5th generation** mobile network, a new global wireless standard after 1G, 2G, 3G, and 4G networks.
- Virtually connects everyone and everything together including machines, objects, and devices.
- **5G** has been deployed in 60+ countries and counting.
- Used across three main types of connected services, including **enhanced mobile broadband**, **mission-critical communications**, and the **massive IoT**.



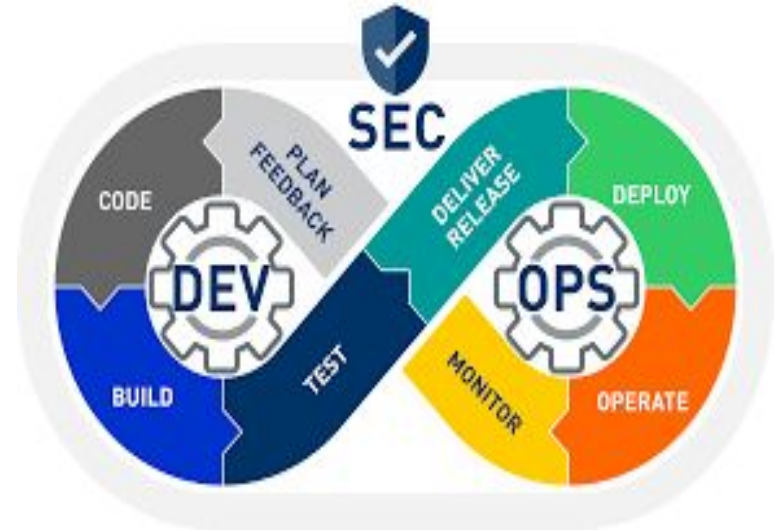
## 2. Internet of Behaviors (IoB)

- A network of interconnected physical objects that collect and exchange information and data over the Internet is called the **Internet of Things (IoT)**.
- The collection and use of data to drive behaviours is called the **Internet of Behaviors (IoB)**.
- Analyse customer buying habits across all platforms and study how they interact with devices and products.
- Provide real-time POS notifications, resolve problems quickly to close sales and keep customers happy.



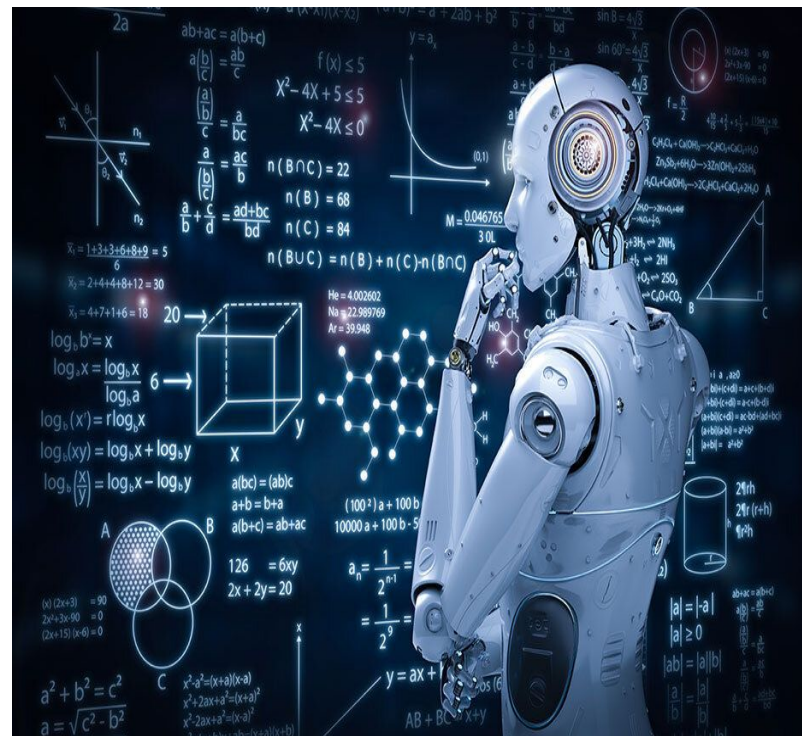
### 3. DevSecOps

- Short for **development, security** and **operations**.
- Integrating security practices within the **DevOps** process.
- **Greater speed** and **agility** for security teams
- Better **collaboration** and **communication** among teams.
- More opportunities for **automated builds** and **quality assurance testing**.
- Early identification of vulnerabilities in code.



## 4. Intelligent Process Automation

- **Intelligent Process Automation (IPA)** is the collection of technologies that come together to manage, automate and integrate digital processes.
- **Intelligent Process Automation (IPA) = Digital Process Automation (DPA) + Robotic Process Automation (RPA) + Artificial Intelligence (AI)**
- Collaborative work environment of humans and robots





## 5. Tactile Virtual Reality (Tactile VR)

- **Augmented reality** (AR) adds digital elements to a live view.
- **Virtual reality** (VR) transports into a number of real-world and imagined environments.
- **Tactile Virtual Reality** (Tactile VR) is an architectural environment that combines **physical materiality** with digital information to create a **multi-sensory, interactive experience**.



## 6. Big Data Analytics

- **Big data analytics** examines large amounts of data to uncover **hidden patterns, correlations** and other insights.
- It helps organizations harness their data and use it to identify **new opportunities**.
- Leads to smarter business moves, more efficient operations, **higher profits** and **happier customers**.





## 7. Human Augmentation

- **Human Augmentation** is technologies that enhance human productivity or capability, or that somehow add to the human body.
- **Technology** which is almost always **with (or on) you**, and **augments your ability** to access any information at any time.
- **Eyeglasses, pacemakers, prosthetics, wearable devices, chip implants, and genetic modifications** are the examples of augmentations.



## 8. Anything-as-a-Service(XaaS)

- Many cloud providers also offer other 'as a Services'
- These are sometimes described as XaaS  
'Anything as a Service'
- Examples include:
  - DaaS- **Desktop as a Service**
  - BaaS - **Backup as a Service**
  - DRaaS - **Disaster Recovery as a Service**
  - **Storage as a Service**
  - And many more



## XaaS benefits in a nutshell:

- Fast and easy entry into new technologies and applications
- Rapid market launch of new services
- Worldwide delivery of services
- Better scaling options
- Greater flexibility
- Reducing costs



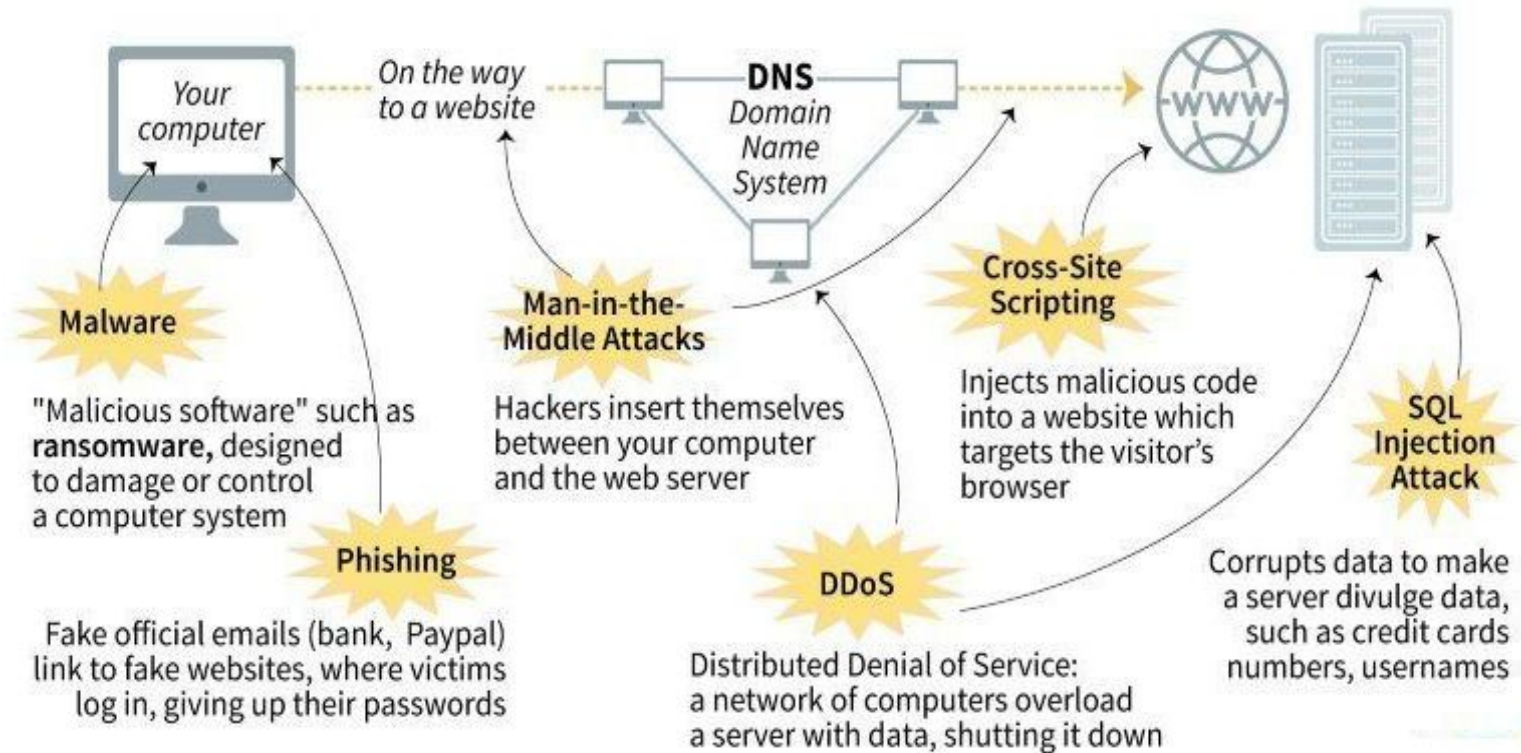
## 9. CyberSecurity

**Cybersecurity** is the practice of protecting systems, networks, and programs from digital attacks.

These **cyber attacks** are usually aimed at assessing, changing, or destroying sensitive information; extorting money from users; or interrupting normal business processes.



# Types of CyberSecurity threats

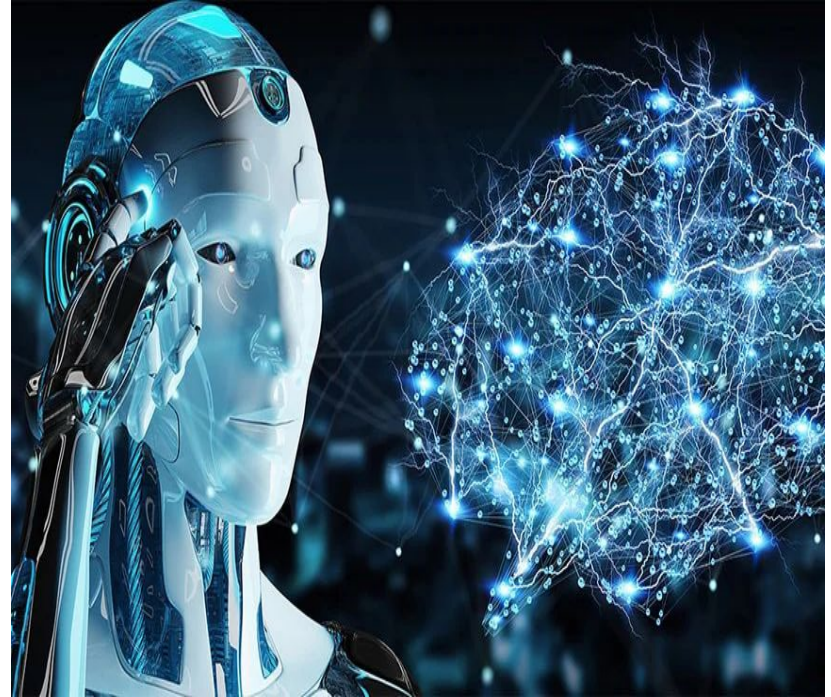




## 10. Artificial Intelligence

**Artificial intelligence (AI)** refers to the **simulation of human intelligence** in machines that are programmed to **think like humans** and **mimic their actions**.

The term may also be applied to any machine that exhibits traits associated with a human mind such as **learning** and **problem-solving**.





# Types of Artificial Intelligence (AI)

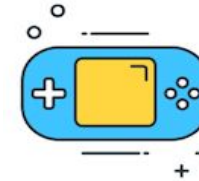
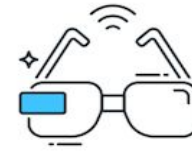
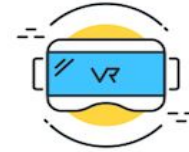
- **Reactive Machines** :- Specialized for Particular Tasks.
- **Limited Memory** :- Monitoring of Traffic Lights.
- **Theory of Mind** :- Focuses on images, ideas and thoughts of objects.
- **Self-aware AI** :- Have ability to react, full of emotions and advanced capabilities of decision making



# TECHNOLOGY IS EVERYWHERE

The top technology trends mentioned above are likely to take over our regular lives in the coming years.

Jobs in these technologies and skills associated with them will be extremely invaluable, and gaining education related to them is bound to help you considerably in your career over the long term.





**THANK YOU**  
**FOR YOUR ATTENTION!**  
**ANY QUESTIONS**

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