HCI Lec 03

Computer

- Computers are one such tool that have changed the way humans work.

- Human-computer interaction (HCI) focuses majorly on the study of interfaces that allows interaction between people and computers.

Technologies Increase Productivity Through Human-Computer Interaction

- Speech recognition

- IOT

- Eye tracking

- Cloud computing

- VR

Speech recognition

- Speech recognition technology can interpret human language

- Increase workers' productivity

- E.g chatbots, Apple's Siri, Amazon's Alexa, Microsoft's Cortana, and Google's Assistant ,these assistants, often found in portable devices such as smartphones or tablets, can each be considered a **'speech-based natural user interface'**

IOT

- IoT devices are basically smart devices which have support for internet connectivity and are able to interact with the other devices over the internet and grant remote access to a user for managing the device as per their need.

- [IoT applications are penetrating their way into our daily lives](#) and almost all the industries

- Interaction with these devices can also help increase workers' productivity

- Communicate or interact over the internet smoothly and can also be managed and controlled remotely when required

- One of the ways that employee productivity is being improved is through the increased possibilities for remote working

Cloud Computing

- Cloud computing is the delivery of on-demand computing services -- from applications to storage and processing power -- typically over the internet and on a pay-as-you-go basis.

VR(Virtual Reality)

- Immersive technology VR connect humans to the digital world and assist them while performing daily operations to increase productivity.

- **Virtual Reality (VR) is a computer-generated environment with scenes and objects that appear to be real, making the user feel they are immersed in their surroundings**

- Interact with computers in a fascinating hands-free way.

- E.g Smart glasses, Virtual Reality headset or helmet.

TOPICS

1. **Amazon Dash Button**
2. **Google Home Devices**
3. **Smart doors and Doorbell Cam**
4. **Kuri Mobile Robot**
5. **Haptic gloves**
6. **Smart glasses/google glasses**
7. **Smart mirrors, smart irrigation**
8. **Eye gaze system**
9. **VR Mind Reading**
10. **3D Mouse**