Human Brain Implant by Neuralink

Source: HT

Elon Musk announced that a **3rd person** has received an implant from his **brain-computer interface company, Neuralink**, to connect the nervous system to machines.

- Neuralink plans to expand its trials with the **goal** of implanting the experimental devices in **20 to 30 more people in 2025.**
- **Brain-Computer Interface (BCI):** BCI is a technology that allows **direct communication** between the **brain and external devices,** such as **computers or prosthetics,** bypassing traditional neuromuscular pathways like **nerves and muscles.**
    - BCIs use sensors to **detect brain activity,** translating it into commands that allow individuals to control **devices or interact** with the world using their thoughts.
- **Potential Applications:** Brain interfacing for conditions like **epilepsy, Parkinson's, and neurodegenerative diseases**.
    - Enabling control of **prosthetics and wheelchairs** through thought.
    - Restoring communication for **paralyzed individuals.**
    - Enhancing **VR/AR experiences** using thoughts.
- It is different from **brainoware** that uses **brain organoids and microelectrodes** to create an **"organoid neural network (ONN)"** integrating **living brain tissue into computing.**
    - Brain organoids are **3D stem-cell-derived tissues** that **mimic human brain structure.**

Read More: Neuralink's Blindsight Implant