

# EDUCATION & WORKFORCE DEVELOPMENT RELATED TO ARTIFICIAL INTELLIGENCE (AI)

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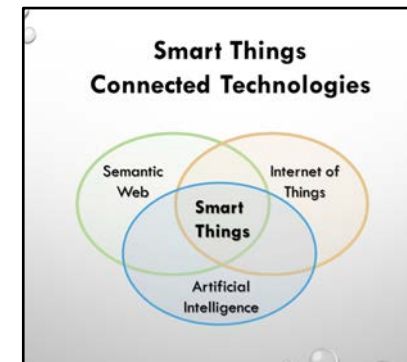
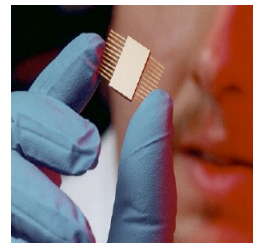
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## *Highlights*

- Understanding the broader ecosystem around AI
- Application Example: Pandemic Response
- Educational needs in workforce

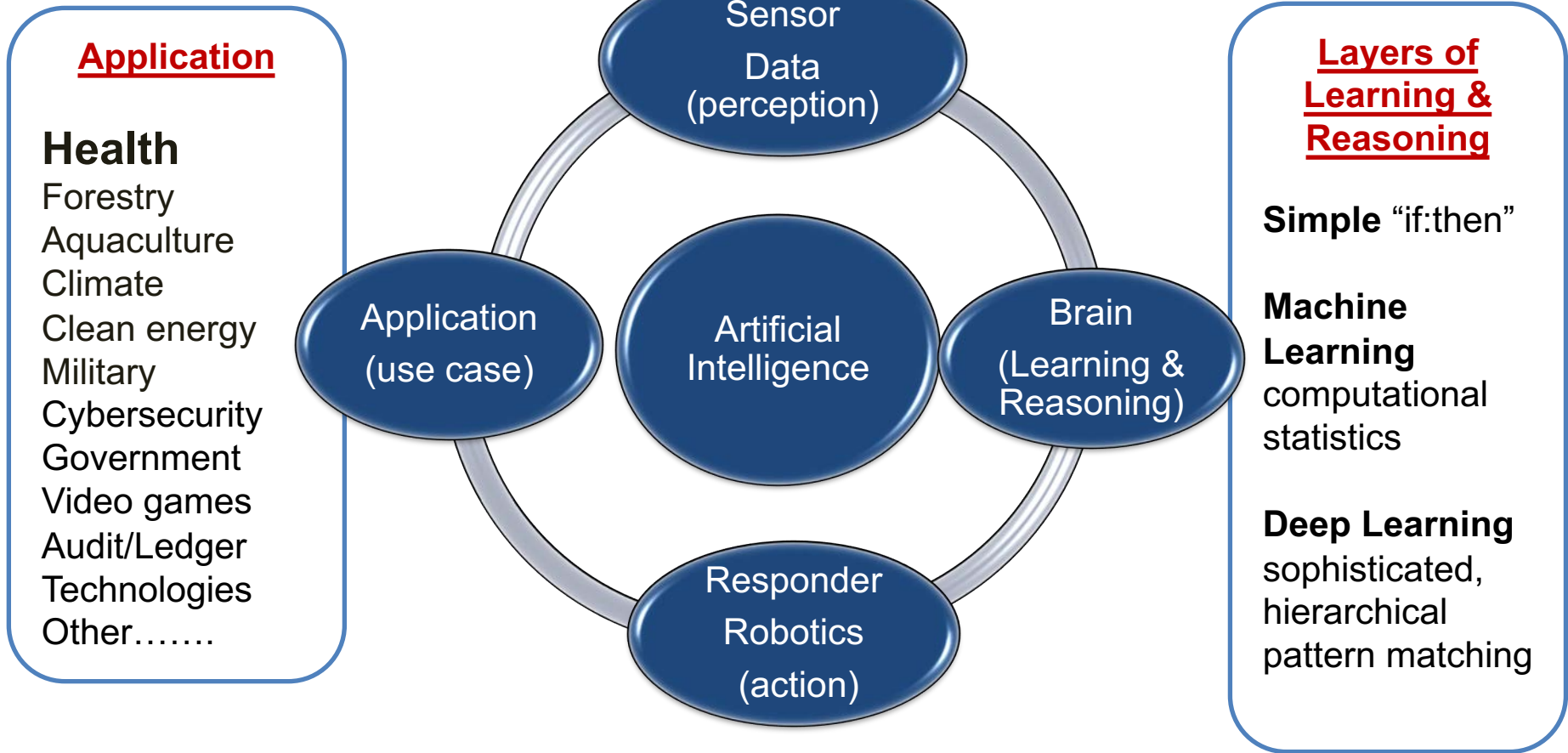


<https://www.eschoolnews.com/>



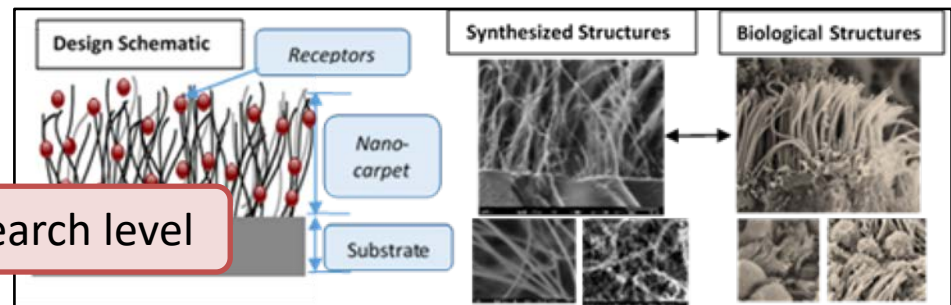
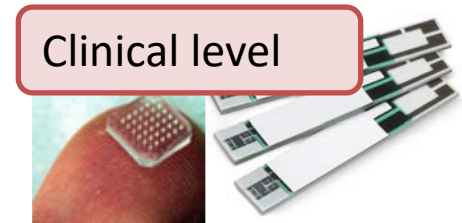
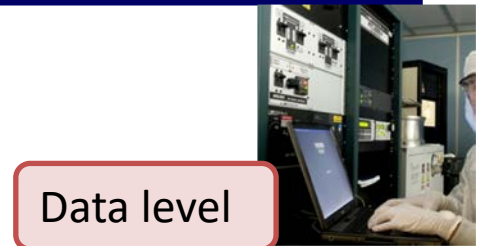
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# BROADER AI ECOSYSTEM



# APPLICATION EXAMPLE: AI-ENABLED PANDEMIC RESPONSE

- **Testing (Link tests to big data real time)**
  - **Biosensors for Virus detection**
  - **Sensors for Antibody detection**
  - **Devices for sample collection**
  
- **Drugs & Equipment (Select and scale-up with AI help)**
  - **Reusable antiviral PPE**
  - Vaccines
  - Drugs
  
- **Contact Tracing, Supply Chain (Leverage existing AI)**
  - Hot-spots and Contacts
  - Hospitals & Workers
  - Supply chain: Equipment & PPE



# WORKFORCE EDUCATION NEEDS

## **IMMEDIATE:**

**AI professionals need better understanding of application**

**Application professionals need better understanding of AI**

- Create application-specific modules within AI education
- Should be collaboratively developed by faculty in both areas

## **GOING FORWARD:**

**Mantra for effective AI education: Cross-disciplinary training**

Possible approaches:

- Application specific AI courses
- Co-mentored projects
- Collaborative student teams

**Need for critical thinking among AI professionals**

**Ability to evaluate the credibility of information generated by or manipulated by machines**

VIRTUAL  
HEALTHCARE  
ASSISTANTS

CONTACT  
TRACING  
WORKFORCE

FACIAL  
RECOGNITION

DISEASE  
SURVEILLANCE

FEVER  
DETECTOR