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## **Discussion 1**

*1) How is AI used in different domains? Raise 3 examples*

Here are three examples of how AI is used in different domain:

- **Healthcare:** AI is used in medical imaging analysis, disease diagnosis, drug discovery, personalised medicine, patient monitoring, and robotic surgeries.
- **Finance:** AI is employed in fraud detection, algorithmic trading, risk assessment, customer service, and personalised financial advice.
- **Education:** AI is used in intelligent tutoring systems, personalised learning platforms, automated grading, and educational content generation.

*2) Can AI be creative? Share examples of AI-generated art, music, or writing you have experienced*

Yes, AI can be creative. Here are some examples of AI-generated content that I've experience:

- Art: DeepAI
- Music: Loudly
- Writing: ChatGPT, Gemini

*3) How does AI differ from human intelligence? What are strengths and limitations of AI and human intelligence?*

★ **AI**

- **Strength**
  1. **Fast and Accurate:** AI can process lots of information quickly and without mistakes.
  2. **Consistent:** It doesn't get tired or make decisions based on emotions.

3. **Good at Specialized Tasks:** AI can be really good at specific jobs it's designed for.

- **Limitation**

1. **Not Creative:** AI struggles with coming up with new ideas or thinking creatively.
2. **Not Flexible:** It can't easily adapt to new situations or learn from experiences like humans can.
3. **Lack of Emotional Understanding:** AI doesn't understand emotions like humans do.

## ★ Human

- **Strength**

1. **Creativity:** Humans are great at thinking creatively, solving problems, and coming up with new ideas.
2. **Adaptability:** We can learn from new situations and apply what we know in different ways.
3. **Emotions:** Humans understand emotions and can connect with others on an emotional level.

- **Limitation**

1. **Slower Processing:** Humans can't process information as quickly as AI.
2. **Not Always Accurate:** We can make mistakes or be influenced by emotions in decision-making.
3. **Memory:** Our memory isn't as quick to retrieve information as AI systems.

### 4) *Can AI help individuals achieve personal growth or self-improvement? Explain*

Yes, AI can help individuals achieve personal growth and self-improvement including:

- **Learning New Things:** AI can recommend courses and materials that match what you want to learn, making it easier to pick up new skills.
- **Giving Feedback:** AI can analyze data about how you work or learn and offer tips on how to do better.

- **Staying Healthy:** AI apps can track workouts and give advice on staying fit.

5) *What are your thoughts on the possibility of AI developing consciousness? Can a machine ever truly “think” or “feel” like humans?*

AI doesn't have feelings or thoughts like humans do. It's designed to process information and make decisions based on data and algorithms which are provided by humans, which is very different from human consciousness. While AI can simulate human behaviour and response, it's not the same as true consciousness. So a machine can not ever truly think or feel like humans.

6) *Will the development of more advanced AI lead to more opportunity or challenge in the job market?*

The development of more advanced AI leads to both opportunity and challenge in the job market. AI helps people find jobs and makes work easier. For example, AI can match people with job openings that fit their skills and interests. It also helps workers by automating repetitive tasks, so they can focus on the important task of their jobs. But AI can also take over some jobs that people do now. This could make it harder for some people to find work, especially if their job can be done by AI. It's important for people to learn new skills to keep up with these changes.