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ARTIFICIAL INTELLIGENCE
SUMMER HOLODAY HOMEWORK
SESSION: - 2023-24
CLASS: VIII - X



CLASS VIII

ACTIVITY: - Dream Smart Home

Draw the rough layout of your dream smart home in a A4 or chart sheet with sketch pens also point out the smart technologies that you would imagine to be there in your future smart home.

This is a layout sample for your understanding purpose.

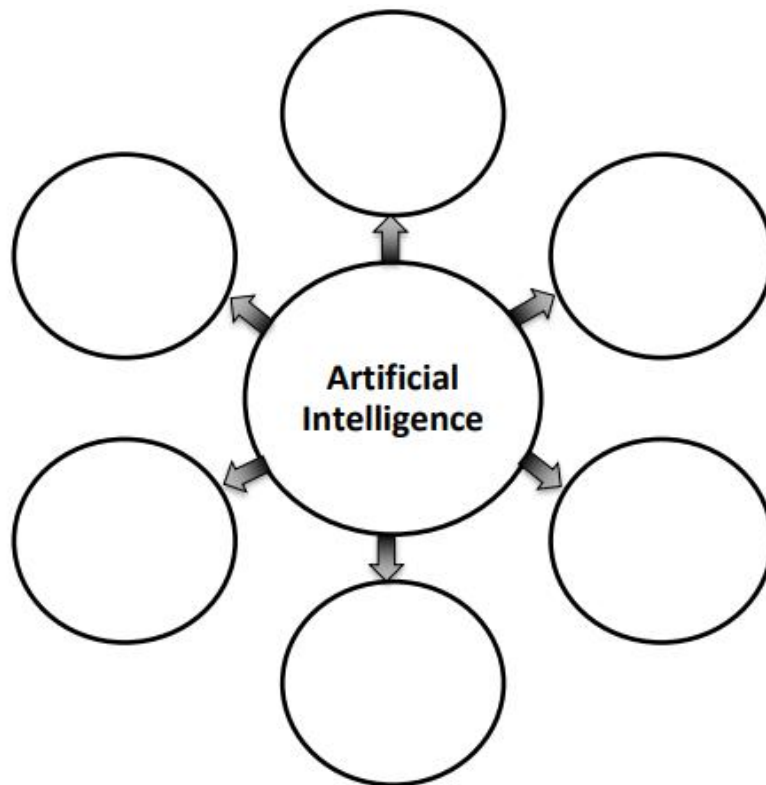


CLASS IX

1. What is AI? Write some applications of AI.
2. What are the three domains of AI? Explain each of the domains.
3. What are the 17 SDGs?
4. What is Data Science? How does it use AI?
5. What is Computer Vision? Give examples
6. What is Natural Language Processing (NLP)?
7. What is AI Ethics? Discuss some of the AI ethical issues.

8. ACTIVITY 1: -

How do you think Artificial Intelligence can help you as you go about your daily life? Fill in your ideas below:



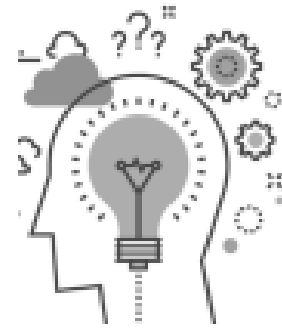
ACTIVITY 2: - Letter to Future Self

Imagine the world in 2030 and write a letter to your future self. Be sure to mention things that you think your future self would probably be doing and experiencing in daily life.

Place _____

Date _____

Dear _____,



It feels a little strange to be writing a letter to my future self, but it's also rather exciting!

At present I am very interested in _____ and am sure this is a hobby that has proved beneficial and I am now a skilled _____.

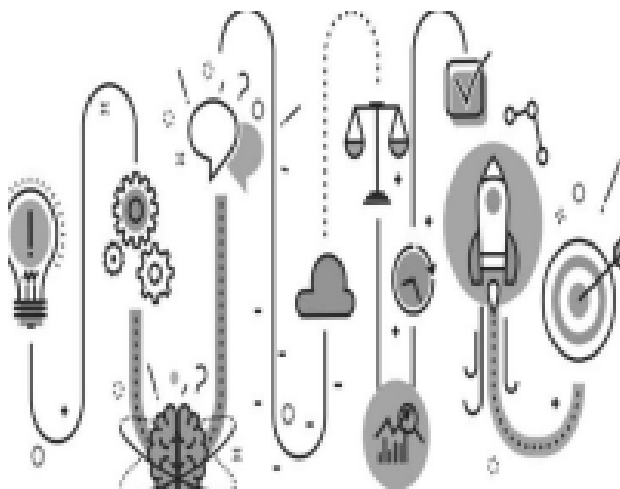
So tell me have things changed a lot? Do we still have a lot of _____?

Has Artificial Intelligence proved to be _____?

You must be so used to _____ while we struggle to _____.

Is our Pet _____ doing well or have you replaced it with _____?

Ha! Ha! It's so much easier, right?!



How is your preparation for the new job?

Must be really nice to be _____.

Have you changed the _____?

Am sure things have turned out well for you in 2030. Great _____!

It's been nice writing to you _____.

Hope this letter brings back old memories...

Sincerely,

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CLASS X

1. What is the difference between a Virtual Assistant and chatbot?
2. How AI is contributing to Google Maps?
3. How is agriculture field benefiting from AI?
4. How sales and marketing field is benefiting from AI?
5. What is GPS? How we can use it to make an AI?
6. What is the theory of multiple intelligence?
7. How do machines become intelligent?
8. What is not AI? Explain with some examples.
9. Who proposed the theory of multiple intelligence
10. What are the domains of AI?
11. What is Data Science? How does it use AI?
12. What is Computer Vision? Give examples
13. What is Natural Language Processing (NLP)?
14. What is Machine Learning and Deep Learning? How they are different from each other?
15. What is AI Ethics? Discuss some examples of Ai Ethical issues like transparency, safety, biasness and accountability
16. What do you mean by Bias in the data collection? Also write down some of the reason for AI bias in data
17. How can one insure fairness in the data collection?
18. What is the implication – Real life obligation of bias in AI technology?
19. What are the disadvantages of AI?
20. **CASE-STUDY BASED QUESTION:**

Choose any topic from the 17 SDGs and research from various sources, then list the set of problems of your subtopic.

Then decide and pick where you think AI can make a difference, as PROJECT GOAL of your AI Project.

List down or draw a mind map of problems related to your project goal.