HOLIDAYS HOMEWORK

&

An Inter Disciplinary Project

- **THEME: Artificial Intelligence**
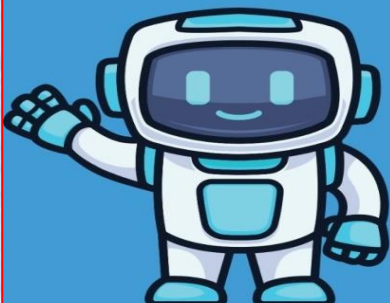- **CLASS: VIII**
- **SESSION: 2024-25**

Dear Students,

This time of Summer vacations demands of you to put together your individual and collective energies, talents and resources to ensure the building up of functional academics as well as your creative, analytical and organizational skills. Therefore, the holidays Homework has been designed with the above list objectives in mind.

Note: Separate Instructions have been mentioned for each activity. Kindly adhere to them.

LEARNING OBJECTIVES

- Develop a solid understanding of foundational concepts in AI, including machine learning.
- Learn how to apply AI techniques to solve real-world problems across various domains.
- Explore the ethical implications of AI technologies, including issues related to bias, privacy, transparency, accountability, and the potential impact of AI on society.
- Explore strategies for deploying AI models into production environments and integrating them with existing systems and workflows.
- Develop effective communication skills to convey complex AI concepts and findings to diverse audiences, including stakeholders, colleagues, and the general public.

General Instructions:-

1. The holiday homework has een divided into Three parts
- Interdisciplinary Project,
- Subject Based Projects
- Ek Bharat Shreshtha Bharat.
2. All the work should be done on A4 size sheets.
3. It should be creative, neat and clean.
4. The interdisciplinary project must have following points:
- Cover page
- Certificate
- Acknowledgement
- Index
- Bibliography
- Size of sheet must be A-4.
5. The final date for submission of Holiday homework is Monday, 8th July,2024

Part-1 Interdisciplinary Project

English	Q1. Watch a movie "Artificial Intelligence" by Nell Minow or any other film based on Artificial Intelligence and write film reviews or blog posts discussing the portrayal of AI, the ethical dilemmas raised, and the relevance of the themes to the society. **BOOK REVIEW LAYOUT:** Q2. Organize a poetry slam, inspired by the concept of Artificial Intelligence by exploring several themes such as machine consciousness, human-AI relationships, or the evolution of technology. Q3. By systematically analyzing and interpreting data on AI adoption, applications, impact, challenges, and opportunities in the context of the Andaman and Nicobar Islands. Draw/Paste any statistical data such as bar graph, pie chart etc and interpret the data in your own words.	**BOOK REVIEW** Date _____ Name of Reviewer _____ Title _____ Author _____ Genre _____ A Brief Synopsis: _____ _____ _____ _____ Recommendations (would you recommend this book? Who to? Why?) _____ _____ _____
Hindi	1 आर्टिफिशियल इंटेलिजेंस के उपयोग व दुरुपयोगके बारे में लिखिए। 2 आपके विचार में आर्टिफिशियल इंटेलिजेंस के उपयोग से हमारे जीवन में कैसे परिवर्तन आ सकते है	
Sanskrit	1.कम्प्यूटर को जो भाषा सबसे आसानी से सिखाई जा सकती है, वो संस्कृत है.।(पाँच वाक्य संस्कृत में लिखिए।) 2आर्टिफिशियल इंटेलिजेंस की मदद से प्राचीन गुरुकुल (शिक्षा पद्धति) चित्र के माध्यम से	

	प्रदर्शित करें।
FRENCH	Create a list of AI related terms on A4 size sheet in french and match them with their English equivalents to build your vocabulary.
MATHS	1.Investigate the use of Artificial intelligence in mathematical optimization problems such as linear programming or integer programming and create a poster summarizing your research. 2. Explore the mathematics of game theory and its applications in Artificial intelligence such as designing intelligent agents for strategic games like chess or poker, then take a hard copy of it.
S.Studies	1.What is the potential impact of Artificial Intelligence (AI) on society and the Economy? How can Artificial Intelligence be used to tackle global challenges like climate change and poverty ? Explain. 2.What is the risk of Artificial Intelligence becoming too advanced or autonomous? Find out some specific examples of Artificial intelligence technologies . Also make chart on it.
Science	1. Explore the applications of AI in various fields such as Healthcare, Transportation or Finance and create a poster showcasing your findings. 2. Create a timeline of future developments in AI Technology and what development or changes you are expecting in the future. Make a report on it.

Part-2   SUBJECT BASED PROJECTS

English	**Q1. Prepare an attractive Wind chime ☐ showcasing the poetic devices. Go through the pdf link for the poetic devices for your reference.** **https://drive.google.com/file/d/1--yIuIAo7-HtCI0xRW0nXt9T0hQYcoeg/view?usp=drivesdk** **Q2. Linguarium making :- Prepare cutouts of different species of fishes from A4/A3 Size sheets in a beautiful manner and write the content separately according to the assigned task as per your roll nos:-** **(Roll Nos) (Content to be written on Cutouts)** **1-10 synonyms** **11-20 Antonyms** **21-30 Words often confused** **31-40 One word substitution** **Assignment Link : https://drive.google.com/file/d/1faYXWfYOe20ULew4tiSju44vkrZGvPjJ/view?usp=sharing**
Hindi	2) निम्न में से किसी एक कवि के दो दोहे A4 साइज शीट पर रचनात्मक रूप में लिखिए। कवियों के नाम - 1)कबीरदास 2)रहीमदास 3)तुलसीदास 4)मीरा

	रोल नंबर 1-10 A4 साइज शीट पर मुहावरों पर आधारित एक सचित्र कहानी लिखिए। *रोल नंबर 11-20 दस विलोम शब्दों की एक wall hanging बनाइए । *रोल नंबर 21-30 दस पर्यायवाची शब्दों के सचित्र फ्लैश कार्ड बनाइए । *रोल नंबर 31-40 फलों के जैम के लिए सचित्र एक मजेदार तथा आकर्षक विज्ञापन बनाइए। https://drive.google.com/file/d/1UgsFr3HgRKbTFjK_EJy1Sg0fKGmh4uks/view?usp=sharing
Sanskrit	प्रश्न 1 स्व परिचय संस्कृत में लिखें । (10 वाक्य) प्रश्न 2. गम् , पठ् ,लिख् विधिलिंग लकार लिखें (A 4 SIZE) Assignment.:- https://1drv.ms/w/c/cea60e1798a45e83/EVQ4Ue02DrlArDwv_Lco964BFPWFLbU4Amz7R9KcTg-Gtg?e=P8WTWq
FRENCH	• Prepare a collage on A3 size sheet showcasing famous monuments and museums of France. • Draw a flag of any country on A4 size sheet and write it's name in French and it's nationlities • Learn lesson 0, 1 and 2.
MATHS	1.Make a working model/3-D model on •　　　Angle sum property(Roll no. 1-5) •　　　Pythagoras theorem(Roll no. 6-10) •　　　Area of a circle(Roll no. 11-15) •　　　Exterior angle property(Roll no. 16-20) •　　　Probability game(Roll no. 21-25) •　　　Puzzle game on understanding Quadilateral shapes(Roll no. 26-30) •　　　Area of 3-D shapes(Roll no. 31 onwards) 2.Do the Assignment on A-4 size sheets by clicking on the links given below: **Assignment Link** https://drive.google.com/file/d/1a14GdiY_xLAgnNUE4rte7dBXW-8EORBi/view?usp=sharing
S.Studies	History tells us about the story of our past. It tells us how things were in the past and how they help us to be changed. So make a chart/collage/model and collect information about "Sources of historical past ". (Points cover :- monuments, painting, coins, national archives, ornaments, surveys etc.) Use A3 size sheet for chart/collage/picture Roll no. - 1-17, make chart and model 　　　　　18-34 ,make collage and model **Assignment Link** https://docs.google.com/document/d/1Miv30vjPVVxf9js4jQOsy5S7TLq16HMb/edit?usp=drivesdk&ouid=111798943163301063212&rtpof=true&sd=true
Science	1.　1. Make a working model/3-D model of 　　　*Hydraulic Crane(Roll no. 1-5) 　　　*Solar irrigation system(Roll no. 6-10) 　　　*Any musical instrument(Roll no. 11-15) 　　　*Rainwater harvesting(Roll no. 16-20)

	*Rain alarm working model(Roll no. 21-25) *Bio gas plant(Roll no. 26-30) *Drip irrigation system(Roll no. 31 onwards) 2. Do the given assignment on A-4 size sheets by clicking the link given below. **Assignment Link** https://drive.google.com/file/d/18f1fI3OinAdigD5L0VNK0zwKTX-hvN8r/view?usp=sharing
Computer	R.NO. 1 -15 Make a model on any computer Topology R.no. 16-35 Make a model on any one computer Network

Ek Bharat Shreshtha Bharat

1. Create a budget-friendly travel itinerary from Delhi to Andaman and Nicobar Islands on A4 size sheets. The project could involve calculating costs for transportation, accommodation, food, and activities, while also considering factors like duration of stay and preferred mode of travel. You could incorporate mathematical concepts like budgeting, time management, and optimization to plan the most cost- effective and enjoyable trip for middle- class families. Also paste the picture wherever required

Happy Holiday!!!!