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Clo	ass: Section: Date:	Ver. 3.0 ⊘
CO	DMMUNICATION SKILLS-II	Unit-1
1.	You are asked to give a group presentation. What communication and why?	ation skills would you use
2.	During a group project, one team member misunderstands you you use communication skills to resolve the issue?	ur instruction. How would
3.	A friend misunderstood your WhatsApp message and got upse the issue using communication strategies?	et. How would you resolve
4.	Name the 7Cs of Communication in the figure given below:	
	Q Q	Ç





















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CC	MMUNICATION SKILL	. <u>5-II</u>	Unit-1
1.	You are attending a jok would you use to make	interview. What verbal and non- a good impression?	verbal communication skills
2.	Draw a flowchart to exp	olain what is "Sentence" made up o	of?
3.		email to your teacher asking for he e is respectful and the message is	





SEI	LF-MANAGEMENT SKILLS-II	Unit-2	2
1.	You have multiple assignments to submyour time effectively?	nit, but a limited time. How will you man	nag
2.	Complete the differences in the followir for you.	ng table. The first one has already been o	dor
	Interests	Abilities	
	Interests Things that you like to do in your free time that make you happy.		
	Things that you like to do in your free		







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SE	LF	MANAGEMENT SK	ILLS-II			Unit-2
1.		friend lacks confidend f-confidence using ted		-	n you help th	em build their
2.		entify the mistakes mad swer.	de by the follo	wing students in	setting their go	pals. Justify your
	a.	"I will win a national of in a school or state-le	•		out Ravi has nev	ver participated
	b.	"My goal is to be succ	cessful and kno	own by everyone	one day."	
	c.	"I will practice math v	whenever I get	time so I can be	better at it."	
3.		sertion-Reason questions oose the correct options.				
		Both A and R are true		orrect explanation	on of A.	
		Both A and R are true		•		
	C.	A is true, but R is false	<u>2</u> .			
	D.	A is false, but R is true				
	a.	Assertion (A): Emotion and building strong r		people are better	at handling str	essful situations
		Reason (R): Emotiona and expressing them		-	-	own emotions
	b.	Assertion (A): Self-aw relationships in both			ge emotions a	nd build better
		Reason (R): Self-aware weaknesses.	eness is only ak	oout knowing you	ur strengths an	d ignoring your



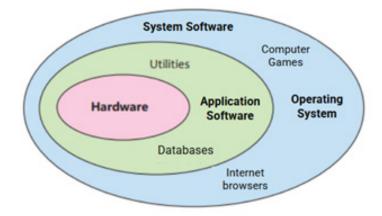


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Class:	Section:	Date:	INTELLIGENCE Ver. 3.0

INFORMATION & COMMUNICATION TECHNOLOGY SKILLS-II

Unit-3

1. Correct the following:



- 2. Write the steps for the following:
 - a. Login and Logout
 - b. Creating a folder
- 3. Your friend is experiencing performance issues because he doesn't maintain his computer properly. You decide to help by creating a computer maintenance plan to keep it running smoothly.

Prepare a maintenance checklist outlining the tasks that should be done on a daily, weekly, monthly, quarterly, and yearly basis to ensure optimal computer performance.



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INFORMATION & COMMUNICATION TECHNOLOGY SKILLS-II

Unit-3

1. "Tejas is very careless about his computer and doesn't understand how important it is to protect it from viruses." As his friend Vani, explain to him why computer security is important and what precautions he should take to keep his computer safe.

2.



Elaborate on the labelled components of Windows 11 from the above image.

- 3 Short Answer Questions (30-40 words each)
 - a. Define Distributed Operating System.
 - b. Write any 2 ways to keep your mouse clean.





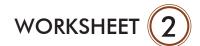




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EN	TREPRENEU	RIAL SKILLS	<u>-11</u>		Unit-4
1.	if the market	•	low would you ma	unch a new product ke a thoughtful ded	•
2.	business inde	ependently, and ify who among t	Ananya started a	thly salary. Kabir run tech company that ployee, who is self-e	t now employs 10
3.	•		_	round, limited mone? Justify your answe	•







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EN	TREPRENEURIAL SKILLS-II	Unit-4
1.	Imagine you are an entrepreneur in your town. You want to start a local resources, helps people, and supports the country's development business would you start, and how would you make sure it meet benefits society, and uses local materials wisely?	ment. What kind of
2.	Assertion Reason Questions Choose the correct option for the given question: A. Both A and R are true, and R is the correct explanation of A.	
	B. Both A and R are true, but R is not the correct explanation of A.	
	C. A is true, but R is false.	
	D. A is false, but R is true.	
	Assertion (A): A successful entrepreneur is hardworking because dedication is key to business success.	se they know that
	Reason (R): Entrepreneurs only work during regular office ho work-life balance.	urs to maintain a
3.	"Meera started a sustainable fashion brand, but her first collection due to strong competition and limited marketing." What entreprenexperiencing, and what could she do differently next time?	





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Class	Section:	Date:	INTELLIGENCE Ver. 3.0

Unit-5

GREEN SKILLS-II

Describe the given image:



- 2. Short Answer Questions (30-40 words each)
 - a. Define Sustainable Development.
 - b. What is Goal 1 of Sustainable Development?
- Piya, a student passionate about the environment, enrolled in a course under the Green 3. Skills Development Programme launched in 2017. With the knowledge gained, she began helping local businesses adopt sustainable practices. As Piya, explain to your class how green skills can contribute to both individual growth and national environmental goals.















Unit-5



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Class:	Section:	Date:	Ver. 3.0 🔊

GREEN SKILLS-II

Gauri lives in a city that struggles with waste management, traffic congestion, and water pollution. Inspired by the idea of sustainable development, she decides to design a "Green City Blueprint" that focuses on clean energy, smart transport, and community equality.

If you were asked to help Gauri, what three sustainable ideas would you include in the blueprint to improve the city's future for all generations?

2. Assertion Reason Question.

Choose the correct option for the given question.

- A. Both A and R are true, and R is the correct explanation of A.
- B. Both A and R are true, but R is not the correct explanation of A.
- C. A is true, but R is false.
- D. A is false, but R is true.
- a. Assertion (A): Excessive use of fossil fuels and deforestation contribute significantly to climate change and environmental degradation.
 - Reason (R): Sustainable development encourages the use of renewable resources, recycling, and eco-friendly technologies to minimise environmental impact.
- 3. Identify the problems related to Sustainable Development by looking at the following pictures:





Grade:

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Part A



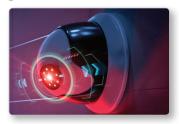
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REVISITING AI PROJECT CYCLE & ETHICAL FRAMEWORKS FOR AI

Unit-1

Identify the AI domains from the following images: A.









В. Draw a flowchart to represent types of Ethical Frameworks.



- A social media platform wants to detect and block harmful comments automatically. How does NLP assist in achieving this?
- A cloud service provider is powering AI systems that help businesses make decisions. However, the environmental impact of running these systems is significant due to high electricity consumption. What steps can the provider take to reduce the environmental impact of its AI infrastructure?















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RE	VIS	ITING AI PROJECT CYCL	E & ETH	IICAL FRAMEWORKS F	OR AI Unit-1
A.		stify the following statements			
	1.	Price comparison websites are offered by multiple sellers.	platforms t	hat allow users to compare pri	ices of products or services
	2.	Gmail ensures that potentially	y harmful o	r irrelevant emails are directe	ed to the Spam folder.
	3.	Google Assistant or Siri can qu	ickly tell yo	u the weather. Just ask, "What	r's the weather like today?"
В.		aw a diagram to display the st			
C.	tec cor bia ma	chCo is a mid-sized technology research. While 30% of their vectorial roles, such as software of mpany has recently introduce as training, and flexible work hany women report a lack of calling the 40% Convey answer the	workforce of engineers and ed program nours. How reer advan	consists of women, the num and data scientists, where on as like mentorship for wom ever, the gender gap in tech cement opportunities.	nber drops drastically in only 15% are women. The nen in tech, unconscious onical roles persists, and
	USI 1.	ing the 4W Canvas, answer the Who are the key stakeholders	-	•	gender disparity issue:
	1.	willo die tile key stakelloluels		i una issue at lecticu:	
	2.	What challenges does TechCo	face in ach	nieving gender equality in tec	chnical roles?
	3.	Why is it important for TechCo	o to address	s these challenges?	

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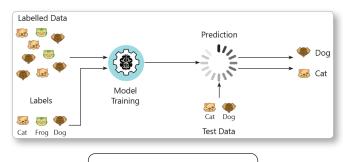
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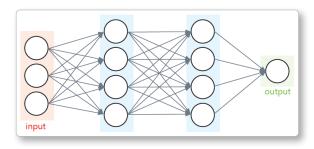
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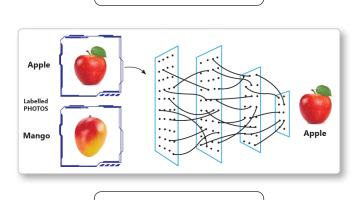
Unit-2

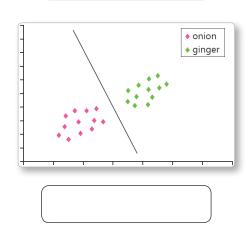
ADVANCED CONCEPTS OF MODELING IN AI

Identify the following images. A.

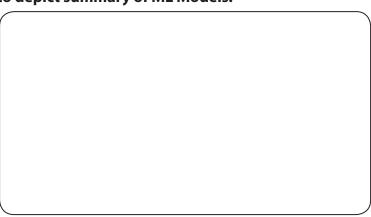








Draw a flowchart to depict summary of ML Models.



C. Give an example of a rule based chatbot made by a grade 10th student to help choose subjects for grade 11th.













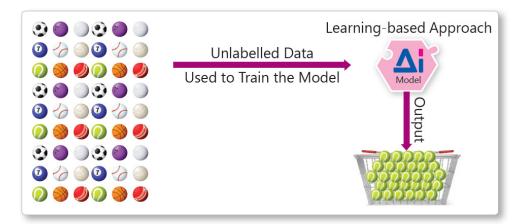


Name:			
Roll No:			ARTIFICIAL
			INTELLIGENCE
Class:	Section:	Date:	Ver. 3.0

ADVANCED CONCEPTS OF MODELING IN AI

Unit-2

A. Explain the concept depicted in the image given below:



B. You are creating a machine learning model to predict whether a student will pass or fail an exam based on their study hours, class participation, and past academic performance. You have gathered data for 500 students, with features like study hours, class participation, and previous grades, and a label indicating whether they passed (1) or failed (0) the exam.

To build your model, you decide to provide the following dataset

- Training dataset: 400 records
- Testing dataset: 100 records

Based on the above information answer the following questions:

1.	What will be the result of the model if both the testing dataset and training dataset are the same?
2.	Why do you need to evaluate the model with a separate testing dataset after it is trained?
3.	How does the trained dataset differ from the training dataset in terms of its usage?





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EV	ALU	ATING MO	DELS				Unit-3
Α.	lea an cus To	rning model d monthly ir stomer's age, build and eva	that predict ncome. You h , monthly inc	s whether a cunave collected come, and whe codel, you decid	stomer will purch a dataset with 10 ther they made a	our task is to devenase a product base 000 records, each opurchase (Yes/No).	ed on their age containing the
	1.	How would	you split the	dataset into a t	raining set and a te	esting set?	
	2.			nt to have this s			
	3.	You decide into the tes		0 split. How ma	ny records will go	into the training set	and how many
В.	Be Pri		ber line shov	wing the actua	price of rice and	the price estimates	s by Aman and
	₹40		₹450	₹500	₹550		
		Aman		 riya	 Actual		
	1.	Looking at	the number li	ne, who is close	r to the actual pric	e?	
	2.	Estimate vis	sually whose	error is smaller a	and explain why.		
	3.	If these poi would be co	nts represent onsidered mo	red predictions ore accurate?	made by two mac	hine learning model	ls, which model
	4.	If a third pe	erson, Riya, es	stimated ₹600 f		ot her estimate on the error?	



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EV	ALU	ATING MODELS		Unit-3
A.	Ma	tch the following busin	ess goals with the suitable ev	valuation metrics.
	Bus	siness Goal		Evaluation Metric
	1.	You want very few actu predicted as non-buye	ual buyers to be wrongly rs.	i. Recall
	2.	You want predictions of trustworthy (few false a		ii. Precision
	3.	You want an overall go Precision and Recall.	od balance between	iii. F1-Score
	4.	You want the model to without focusing much	perform well in general, n on any error type.	iv. Accuracy
В.	will on not • C a • U	I purchase a product be the website. Your datast purchased). After train overfitting Model: The ccuracy on the test dat Inderfitting Model: The lata.	eased on their past purchase set consists of 100,000 user rening and evaluating the mode model achieves 95% accurate. E model achieves 70% accurate model achieves 70% accurate.	model to predict whether a customer history, age, and browsing behaviour cords with labelled data (purchased or el, you notice the following behaviours cy on the training data but only 60% acy on both the training data and test
			•	on both the training data and test data
	An :	accuracy on the test da	on for the Overfitting Model's hata?	iigh accuracy on the training data but low
	2.			ooth the training and test data?
	3.			uction, which one would you choose and





WORKSHEET

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Cla	ss:	Section:	Date:	INTELLIGENCE Ver. 3.0 Ver. 3.0
ST	ATISTICAL	_ DATA		Unit-4
A.	What is my	/ name?		
	1.			
	2.			
	3.			
	4.			
	5.			
	6.			
B.	How can st	tatistics be usefu	l in real life?	
C.			et of student marks. How would resents the performance?	you decide which measure (mean,
				•••







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		ITER VISION	<u> </u>		Unit-5
		•	ping mall that uses fac g more convenient for c	•	y. What are two ways this
В.	Des	sign a smart home	e feature that uses facia	recognition in a new, h	elpful way.
			•		
_		``````````````````````````````````````			
		•		_	systems at the entrances to make the city safer by
				find missing persons and the misuse of perso	quickly. However, some
					t improvements or raise
		cerns.	1 116		(
	1.	How does facial re	ecognition make life mor	e convenient and secure i	for SmartTown's residents?
	2.	What are two maid	or concerns residents mia	nt have about installing fa	cial recognition everywhere
		in the city?			
	3.	Suggest one way comfortable with		nce safety and privacy t	to make people feel more



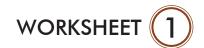
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Roll No:			ARTIFICIAL
Class:	Section:	Date:	INTELLIGENCE Ver. 3.0
COMPUTE	R VISION		Unit-5
			 Mar. 1 II

Imagine a hospital without computer vision in medical imaging. What challenges might doctors face in diagnosing diseases? What technology does the Google Translate app use to recognize text from images? В. Why do we split coloured images into three separate channels (Red, Green, Blue) for storage C. and processing? You are designing a smart app for tourists. D. It should instantly translate not just signs but also posters, menus, and product labels in crowded markets. Which computer vision techniques would you include: OCR, classification, object detection, instance segmentation? 2. Briefly explain why you chose each one.





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Roll	No:			ARTIFICI	ΔL
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NA	TUR	RAL LANGUAGE PRO	CESSING	Uni	t-6
A.				om an online store. Which NLP technique pset? Explain your choice in brief.	would
В.	by	•		w people are reacting to a new product law omments daily across Facebook, Instagra	
	1.	Which NLP technique sho	ould the manager use t	to find out if the comments are positive or ne	gative?
	2.	How will this technique	help the company im	nprove?	
C.	wo Ima Dra • V • H	ould you add to make it s	marter? hatbot that helps perfectly the second seco	t to help students study. What 2 cool fee	eatures

















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NΔ	THE	AL LANGUAGE PROCESSING	Unit-6
14/1		ME EMIGORAL I ROCESSINA	
A.	Wh	aat's my name?	
	1.	I split a long paragraph into multiple sentences.	
	2.	I remove extra symbols like #, @, \$, and numbers if not needed.	
	3.	I understand context and have human-like conversations.	
	4.	I am a chatbot that follows a fixed path or script.	
	5.	I make sure words like 'RUN' and 'run' are treated the same.	
В.	me	tudent is traveling to a foreign country. They cannot read thenus because they are in another language. They decide to unslate the text instantly.	_
	1.	Which two technologies are working behind this feature?	
	2.	How does it make travel easier for the student?	
	۷.	now does it make travel easier for the students	
C.	Wh	at would happen if we don't remove stopwords before data pro	ocessing?





Part