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	Name: Shivam Sharma
	Roll no.: 14 /1018649 Section: D
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	Subject: Artificial Intelligence (IBM-501)
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	Machine learning is a concept which
	allows the machine to learn from
	examples and experience, and that
	too without bieng explicitly
	programmed. So instead of
	writing the code, what we can do
	is to feed data to generic algo,
	and the machine builds the logic
	based on given data.
	Machine learning is trained using
	a training dotaset to create a
	model. When new input data is
	introduced to ML algorithm, it
	makes a prediction on basis of model.
	The prediction is evaluated for
	accuracy, and It accuracy is
	an acceptable, the Mc algorithm
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	is deployed. Otherwise, ML algorithm
	is trained again 2 again with
	augmented training data set
$\rightarrow$	There are 3 types of Machine
	leasning.
_ ii	Supervised Learning:
	It is the one, where you can consider
	learning is guided by the teacher.
	We have dataset which act as
	teacher and its role is to town
	model or the machine. Once the
	model gets trained it can start
	making prediction or decision when
	and data is given to it.
	Ex: Linear Regression for regression
	problems
•	Unsupervised learning:  Unsupervised learning:  Thomas observation
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	and find stauctures in data. It
	relationship in dataset by creating
	relationship in
	duster on it.
	Chuster on 1t.  Example: K-means for clustering
	problems.
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(iii)	Reinforcement learning;
	It is the worlity of agent a maria
	with enument and
	what is heet outcome. It please
	concept of hit and that ment
	The agent is rewarded or penaged
	with a point for a correct or
	wrong answer. And again once
	trained to it gets ready to
	predict new data presented to it.
	Ex: Cat is an agent that is
	exposed to environment
Q5	
	S1: Login to your IBM cloud account
	S2: Goto search bar and search for
	text to speech and click on it.
	S3: You will be with the new page
	then select region as London
	and choose life plan and click
a citae	on create button which is
	in night hand side
	S4: You will be promoted into the
	new page, go to getting
	started tob and open the
	Guit boush or any other terminal
	which supports bash and
	check for werl version with
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	aud-v command.
	S5: If wel version shows up you are
	ready but it it doesn't show
	any version then you might
	nied to reinstall curl.
	S6: In the getting started tab at
	the top dick on show credentials
	so that we don't need to copy
	paste our credentials again &
	again.
	S7; Goto S1 in getting started tob
	and copy the cuel command as
	we have truned on show
	credentials so we don't need
	to change anything.
	S8: Copy the whole command in
	terminal or git bough and then
	a file with name hello-world-war
	will be created on computer.
-	59: When you open the file it will
	read the text which was
	passed with our command.
-	1.e helloworld".
-	S10: That's how we can create
	and own text to speech houtson
	service using curl.
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Sy Computer vision is a field of computer science that works on enabling computers to see, identify and process images in same way that human vision does, and then provide appropriate output. to computer. In reality though. It les difficult toet to enable computer to recognize image of different objects. It is closely linked with AL as the computer must interpret what it see and then perform appropriate analysis or act accordingly. History of CV and Advancement with AI In the late 1960's. Cu began at universities which were pioneening. AF. It was meant to mimic human visual system. It distinguish Cu from prevalent field of digital image processing. Studies in 19701s formed the early foundations for many of CV algorithme that exist today which includes extraction of edges from images, & labelling of lines etc. The next decade saw studies based on more vigorous Classmate

mathematical analysis and quantative aspect of &CV. Towards the end of 1990s, a significant change come about with increased interaction b/w fields of computer graphics & CV and currently with AI deals with autonomous planning delibration for nobotic systems to navigate theough an environment. A detailed understanding of these environment is required to navigate through them. Info about the environment could be provisoned by computer system.