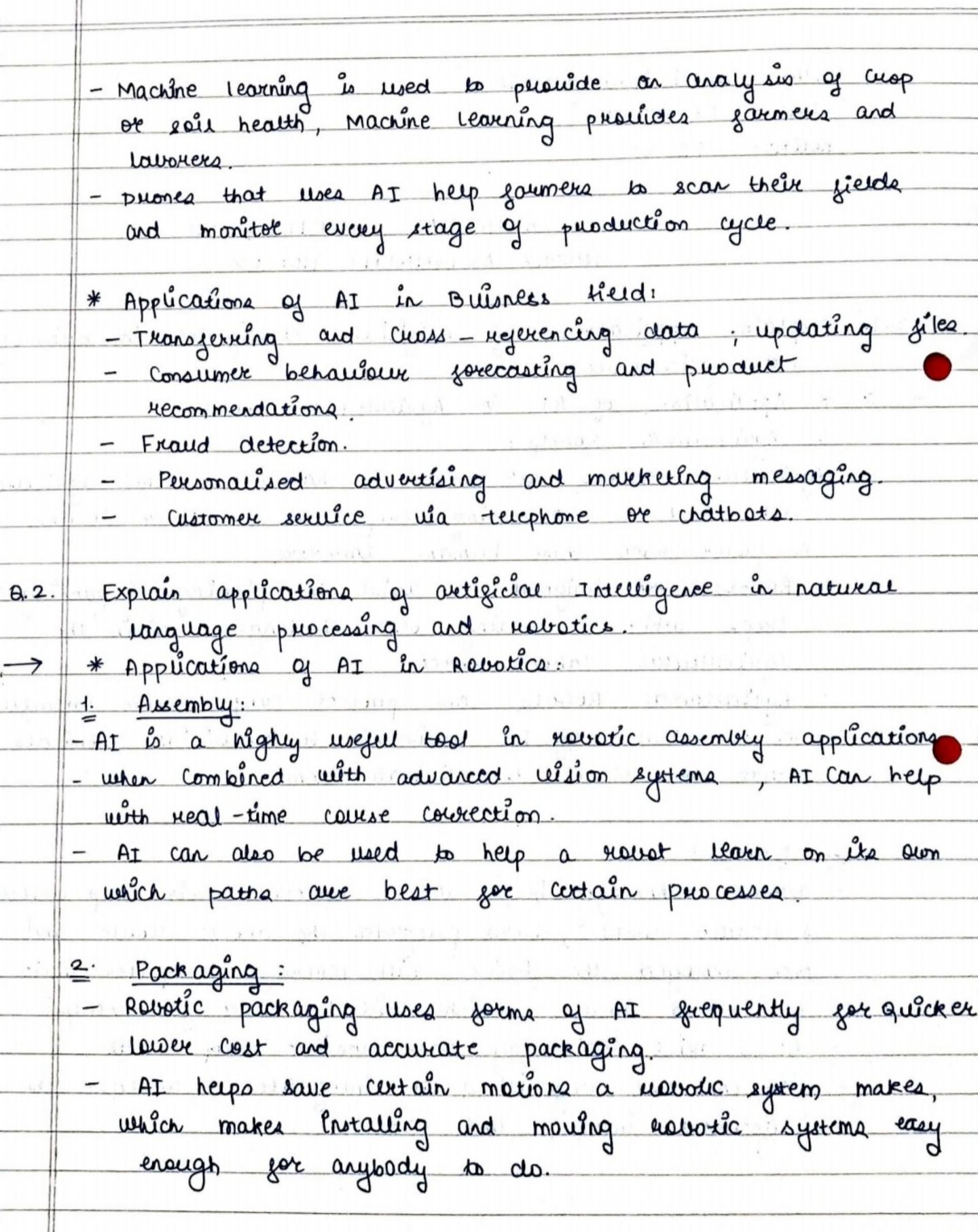
ARTIFICIAL INTETLIGENCE THEORY ASSIGNMENT NO: 02 A.I. Explain applications of artigidal intelligence in buiness and agriculture * Applications of AI in Agricultural field: 1. Agricultureal Robots: -Agricultural Robots are used to handle essential agricultural taske such as harvesting crops at a higher Volume & jaster pace than human laurkers - Robots are designed to assist in picking & packing Crops while combating other challenges within the agricultural labour jorce. Agricultural Robots can puotect cropa grom harmque weeds that may be resistant to herbicide chemicals that are meant to eliminate them. - Duone technology helps users improve their cuop yeild of meduce coets, users purguam the durine's moute and once deproyed the device will reverage computer vision At saviet technology can monitor cuop health. It can use augorithme to integrate & avaigze the Captured images and data.



* Applications of AI in Natural language processing: 1. Customere service: - Robote are now being used in customere service capacity in netall stones and hatle around the world. - Most of the AI robots leverage AI natural language processing audities to interact units austomers in a more human way. 2 serviment Analysis: - Mostly used on the web & social media monitoring, Natural Language puocessing is a queat tool to comprehend and arayze the newponnes to the business messages published on social media partyonens It helps to analyze the attitude and enotional state of the writter. This application is also known as spinion mi ring Explain the aiggevent architectures of deep neutral networks. How artificial intelligence can be used in computer vision? * Disserent architectures of deep neural networks are: Recurrent Neural Networks: - Recurrent Neural Networks are in the family of great johnard neural networks. - Recurrent Neural network allow for both parallel and sequential computation. It is a large judback network of connected neurone that learne to treanslate a ligerong sensory input stream into a sequence of useful motor outputs. Recuerent neural network are a very natural way to model sequential data. They have the allility to remember Erjonmation in their hidden state jor a long time but is

	2.	Recursive Neural Networks:
	_	Recursive N.N, like recurrent N.N, can deal with Variance
	1	length input.
	_	The primary difference is that recurrent neural Networks
		have the aility to model the hierarchical structures
	1	in training datasets.
	_	A Recursive Neural Network auchitecture i composed of a
		shaved - weight matrix and a binary true structure that
		allowe the recursive network to learn varying
		sequences of words or parts of an image
		d do do
	3.	Convolutional Neural Networks (CNN's):
-		The goal of a CNN is to leave higher - order geatures
1		in the data wa convolutionals. They are well suited to
11		Object necognition with images.
#	_	They can identify jaces, inaluisuals, street signs and
-		many ether aspects of visual data. They are also good at
11	- 1	araiyzing sound.
-	-	Following is the list of some popular architectures of CNN
	1111	· LeNet
		· AlexNet
		• ZFNet
		· Googlenet
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	-	Computer vision is a filled of artificial Intelligence that
		Computer vision is a gilled of artigicial Intelligence that trains computers to interpret and understand the visual
	11	world.
		As Computer vision evalved, purgreamning algorithme were
		created to some indivisual cravenges.
	_	Computer vision ar AI technology that allows computered
		computer vision, an AI technology that allows computered to understand and lavel images, ican be used in:
		· Conwinience stores
1		
		· déliveres cor testing
-		· daily medical diagnostics · monitoring the health of crops and livestock
1		· monitoring the health of crops and westock.