0	- Jinesh . N	
	- 64	Page No.:-
Varel		
	Λ'	
Ca a	Assignment - 0	9
11	port and the first of the stand in	Mig what is a
*	Tittle:	
	Implement a neural netw	ork for a real life
	application.	
*	Aim :	
	Implement and understand	d working of Neural
	Implement and understand network for a real life	application: Face
	recognition with Python.	
	see 14 s drawle consess	C. V. D
*	Objective:	and the same of th
	To study and implement of	ace recognition using
, sk. p	Python and Open (V.	Maria Cara I Francisco
*	Theory:	
	J	A VANDAL VALLE OF THE STATE OF
(i)	Machine Learning	Deep learning
		- DI is a subset of A
	- Subset of AJ that	based on artificial
		neural networks.
	patters.	TARLET SHOWN FROM THE
	- MI topically relies on -	DI automatically
	structured data.	ntracts features from ra
		data
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	Page No.3-	
	Machine Learning Deep learning	
		rnad
	- Human enperts - Features are dea	1-1h
	manually relect features automatically by	
	from data. network.	
1 1 1	P in a laigh	
	- less computationaly - Requires high	LIXCOC
	intensive computational reso	
1700110	Charles the second transfer of the second tra	
(ii)	Open (V	
	Open (v is a open-source software	
	library that provides tools for computer	
111	vision MI and image processing. It is	
	used in various applications such as face	ognition !
	detection, object tracking and image rec	ognition.
	Ley features:	
100	7 2	11/1/11
	- Image Processing	
That is a first	- Object detection	
1	= Vidoo analysis	
1	- Machine learning - Cros, platform	
	Cross practorn	
Chris	A DI PERCENTINE OF THE REAL PROPERTY OF THE REAL PR	
11145 14 11		
	<u></u>	
mynotes		
My Knowledge bank		

	Dathe:- / / Pege No.:-
*	Input:
	Input an image with a human face on it.
-#	Algorithm will detect faces of all humans
	present in the image
	TIESTA IN CHE IIIAGE
*	Algorithm +
	Meural network
ار	
*	Platform + Linux
*	FAGS :
g. 1.	Explain carcade and classifier in detail.
\rightarrow	A classifier is an algorithm that is used
	to distinguish between different classes or
	categories of objects
	Types of Chassifiers
	- Haar Classifiers
	= Support (lector Machines (SNMs)
	In opency the most widely used classifiers
	Haar Caskade Classifier!



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A cascade refers to the structure of the detection algorithm, which is a cassade of stages. Where each stage consists of a set of weak classifiers. The carade clamifier works by applying multiplying stages of classification. Q2 What are other cascades provided by Open(v? (i) Face detection (ii) Eye Detection (iii) Smile detection (iv) lower lupper body detection (v) (an detection Q3. Why do we need to convert image to a grayscale image? - Simplifies data and reduces complexity - Most detection algorithm use Gray Scale - Improves performance and efficiency - Increases accuracy. Hence learned Open (V using lython. learned Neural networks

