Assignment No. 2

	Sommer Sugarity to The mount
4.0	Explain data manipulation with pandas of
	write a program of paindas with the
	help of panders series and dataframe
	Randus is a powerful library for data
53.8	manipulation and analysis up python.
수 없는 이 없는 지금 하는 어떻게 되어 하나 된다.	It provides a flexible and early to me
	data structure could a dataframe, which
	in similar to a table in a database
11	Pandas allows you to bad data from
	a wide range of sources, including as
	files, excel file, son dutabases and more
(9)	some common dary manipulation task that
<u> </u>	can be resignated using pundas are:
	a) loading data.
	o) cleaning data
and the second s	ptub primedanset (3
	1) Firsting data
Annual An	e) morging data.
	- Carronni sang
	podraw:
	whose baugas as by
	Floud data from cu fic
1	vara = bg. read -csv (, gard.csn,)
#	drop rows with missing talues.
	uty = daty, diopna ()



	# group data by category
	grouped data = data group by (category) sum ()
	(2.8. 2)
	It fifter data by Baice
_	Pitered-data = data. 100 [data ['price'] 2100]
	# merge date with another ratelisans
	Other -data = pd. raid - CIV(other -data, csv)
	merged -data = pd. merge (duta, other -data, on=id?)
es.2	Explain visualization with most plottib and
	Seaborn with a sample of matportlib and
	seaborn.
-0(1) Matplotlib: -
	matphatlib is a low level library of python
	which is wed for data visualization - It
	is easy to use and emissates MATLAB THE
-	graphs and visualization. This library is built
	on the top of numby and consist
	of several plot like lines, but chart it histogram
	and ex.
	explored and distribution against their branishs
	a MATLAB like interface interior
	All the profession to good
	Imports matplothib pypot as pt
	import matplothis, pyplot as ptt

y=[20, 25, 35, 55] It pletting the dates plt. plot (x,4) () work-ty 10 15 20 25 30 35 40 * Seabolo: -> seatorn an amazing visualization. library for statistical graphics platting got python it is bruit on the dop of matported library and also closely integrated into a duta structured from Langar infort younds as ob. Impost sealown as son SOS. Set Capita : "white") and and animalian



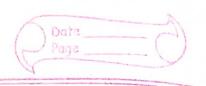
	205 = np. random. Randomstort (10)
	d= 200, normal (5) 28 = 50)
	Ens. dist plot (d, kde = True, color = q)
	Harde by
	~
C	6
0.	5 C - I would be from Annual to for my from my
0	9/9/17/9
0	3 - Committee to the second to
o	2
C	-
	-3 -2 -1 0 1 2 3 4 3
	was to plut histogram wing matphatis
	Emport Many as 'no
	import matphollip , pyplot as plt
	11. 31.17.31.17.31
	# generate a random dataset and when
	faxa = ub rangen - worm of (2556 = 1000)
	the object (South 100 to 100
	# plot hist (data) il histogram, which go
	pt. hist (data, bins = 30)
1,	Harry Marian A. C. Lander
	# add Jabels and titles.
	pt x label (value)

Date Page

bit Alopel (; Exchicuch,)
pri time (" Histogram of Random dara")
dispay the pot
Ques y Explain feedforward neutral network in detail
DO A feedforward news prower also known as
as multilayer perception, as a type of AT
network that consist of an input layer, one
or more hidden layers and an output
3 Information from in forward direction, from the
The layer tworph hidden layer to the olp
3) Each layer in a feed forward neural
network tonsist of a set of newtons or
notes that are connected to the newtons in
the adjacent layers.
The activation function is used in the
olp layer depends on the type of tail
being performed
B) They are widely used for supervised leaving
fust such as classification and regression of data
and can be browned on a variety of dama



	types, such as text jimages.
0	They can also be used as a building block for
	more complex neural network architectures, such
	as cum,
	from the good and all the state of the state
	tracing a part in the
	Explain newal network in detail also write the
	pros and your for the same, whitever is
	Meural netroods in a type of machine learning
	made that in Inspired by the structure and
	function of the human brain comme
	24 consists of multiply layers of interconnected
200	noches.
	The bourie building block of neural network in an
	artificial newson, which receives ilp from other
	newar or from the outside would a
<u> </u>	The ilp to a newsum in weighted, meaning that
	some if one given more importance than other,
	and the weights are learned through a
	byoresz lang parktysoladazions
6	4 neural network typically consist of three
<u> </u>	types of layer: input layer, hidden layer and output
	Kryen.
	The ilp layer receives the raw data such as
	smage or text and then panes to the hidden knyer.
	The hidden layer perform computation on the 1/p
	and pass the result to the old sujer, which
100000000000000000000000000000000000000	



	produces the final output such as a numerical
	value.
Fact 12-	the same of the sa
	pros:
	It has ability to leave the complex passes.
0	It has high levels of agracing on a wide task
3	vernatility.
9	Mental network are often very robust to
021	noisy and incomplete data, still make
-	aguitate predictions.
124.124	
	com:
0	Herral networks require longe amount of
	dary to be trained effectively.
(3)	unerability to adversarial affacts.
3	lack of interpretability.
6	Pacine to overlitting
(S)	It requires significant computation resources.
	19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
13. 13. 14. 17	Marin property of more Course of the
ALLEN MAIN	the state of the s
	1011 1110 1110 1111 1111 1111 1111 111