## Assignment No.1

0-1-1	Explain fini phases of data science proces?
-P 0	The first phase of dara science process is
	problem statement or understanding the problem,
(3)	It's really very important to declare or
	formware your problem statement very creatly
	and precisely.
(3)	Your whole model and it's working depend on
	your statement
<u>(4)</u>	many scientist considers this as the main
	and much important step of data science.
/ · 6	so make sure what's your problem statement and
	how went can it add value to business or
	any other organisation
(e)	sometimes the customers will make a clear
5	request while other may ark you to solve
	a very broad problem
<b>(3)</b>	The first Hep in these situation is to
A	identify clear objectives and convergete difficulties.
	The second of th
9.2	Describe Telm Data science? with its Meed?
	Data Science:
	Data science is a deep study of the massive
	amount of duta, which involves extracting
	meaningfus insights from raw, structured and
	unitarity data that in processed using the
	scientific method, different technologies and
	algorithm

(3) It companes a wide range of task including data cheaning and preparation, data visualization, malelling , me of ett. (3) It is injuridisciplinary field that allows you to extract knowledge from structured of maryetured data, warring bus \* Meed of data science: - 1 O Data science can help you to detect fraud wing me algorithm. (3) Allows to build intelligence ability in machines. 3) It help's you to recommend the zight product to eight quintomer to enhance your business in assertion 4) It enables you to take better and faster decision, 5 with data science technology, we can unvert the massive amount of saw and unstructured data into meaningful insights. Talls and while I marked more marked that I had 7 234 / 1 11-11- MADE O O 2004132 10007 1 1812 Apologia dide 10111 to tallone Warren was much reference to grander 1. 1 days were in the state which I don't walked

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And the second s	The state of the s
0.3	summarize the importance of linear algebra
	un data science.
-07	Linear alachan P
(V	Dinner algebra is a fundamental branch of
	mathematics that has important application
10 07	10 addry science. The throughout references
(3)	some key reasons why knear algebry is
	important un data science exer: 1921
(1)	Data representation: - Molding 118 1930 (a
and the state of t	Minear algebra provides a powerful tooliet for
	representation and manipulation dates
	concise and efficient manner and the
	13/2012 2012 2013 10 10 10 10 10 10 10 10 10 10 10 10 10
13	MI ALL THE THE STATE OF A MARKET POR
- 0)	ML algorithm: A service in the service is
10mman	many machine learning also like linear regression,
	logistic regression & etc. rely on linear algebra.
	This use to make prediction and their models.
	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-()	Optimization: A har har
LE L	linear algebria in cured to solve optimization
	petablems in data science, such as finding the
AN	break wattom oboti
	best parameter genfore me model. It colo
	promot a francwork for solving problem
	efficiently. saidona - artista
1	
0)	Data Visyalization:
The second secon	linear algebra can be used to transform
	high-demensional data into a lower-dimensional
	space that can be visualized early.
- 11	



pyes.4	Describe in detail structured thinking of data
	Structured thinking win data science involves breaking
	down compress problem into smaller, more
	munageable component and using logical after by
	Step approach to solve them . It solve wing
	several key yeps:
0	) before the problem and more and the
	) Collect and preprocess data
	) Exploratory duta: analysis
	choose an appropriate model
9	I Train and volidate the model
Ł,	) Evaluate and interpret results.
	Communitation finding . round
	structured thinking in critical for data
	Science because it helps data scientists break
	down lompler phobles into smaller, more
	manageable components, and ensures that they
13.31/1951	follow a logical o step by step approach to
	solve them
12.	This approach can help improve the -accuracy
70.8/	and efficiency of data analysis and read to
	more informed decision - moving,
	and and and and a
11	the of their or rent and place means
1	The transfer of the state of th
	mine to describe where the way to the transfer of the second

P.5	Surreyorize numpy allays.
-0	Mumpy array are a fundamental date straugure
	in numpy library for python.
0	They are used to store & manipulate large,
(E)	Numpy aways are similar to python lists, but
	they are more efficient in terms of
	Mumpy array are created using the
	the original and can be and -
6)	dimensional, or multi dimensional.
	one of the key benefit of numpy array is
	their ability to perform vectorized operations.
3 4	someth; and analysis and married teasured
16	1 = [1,2,3,4]
	ne way(ii)
	print (umpyArr)
	ingerest :
	[1234]
·	