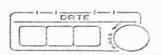
G. H. <u>Raisoni</u> College <u>Of</u> Engineering And Management, <u>Wagholi</u> Pune Assignment no :- 1 2021- 2022					
Department	CE [SUMMER 2022 (Online)]				
Term / Section	III/B	Date O	f submission	01-10-2021	
Subject Name /Code	Python for Data Science / UCSP204				
Roll No.	SCOB77	Name	ame Pratham Rajkumar pitty		
Registration Number	2020AC0E1100107				

## ASSIGNMENT NO 1 # Aim :> Introduction to data Science and various python Styder Tool with its some busic operation and various Phases indata science # Theody:> what is Data Science? It is a field of applying advanced analytics techniques and scientific principles to extract volvable information from data of bussiness decision making It plays an important role in virtually all aspects of bussiness operations and Stoatergies It is also vital in largers beyond regular bussiness operations It cons continues to evolve as one of the most promising and in demand carrer puths for & Skilled professionals. Today successful data professionals understand that they must advance past the traditional skill of analysing large amount of data data mining, and programming Skills in order to uncover useful interligence for their organizations

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		Maintain	1		
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12 N 1 X = 4 +	C BE THOSE	. Duta Staging			
		· pata processing			
<u></u>		pata Architectui	± 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
1			Analyze		
*(	Data Reposting  Data visualization  Business intelligence  Decision making  *(1) Capture > The Very fixst Step of a data  Science project is Straight forward we obtain				
11	capture the data that we need from available sesources. In this step we gother data with the help of data acquisom, data entry				
	data Extraction	e+ (			
* 2	2) maintain: > Ates Obtaining the duta, the next tring to do is processing Iscoabbing duta. This process helps und filter the duta.				
	tris process rielps	DS TO LIEQII U	THE ATTE COTO.		

## SCOB77\_Pratham Pitty



If the results of the analysis will not melan anything we can process data with the help of mining, modelling and Summerising the dota

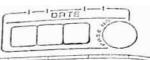
- (3) process :> After obtaining data we maintaing the data thereafter we have to process the data according to our needs.
- (4) Analyze: After processing the data we have to analyze the data by the means of various techniques i.e. regression, text mining, qualitative analysis etc
  - 5) communicate: > After Analyzing the data we have to communicate with the bussiness intelligence data report to know about the data and now we can grow our bussiness

Data Scientist:

Data Scientist examine which questions need answering and where to find the They have bussiness acumen and analytical skills as well as the ability to mine, clean and present data Business used data scientist to source manage and unalyze large amounts of Unstructured data.

Y Skidis needed Fox Duta Scientist:> · Programming Skills (SAS, R, Python), · Hadoop Statistic and mathematical Skills - SqL · Storytelling and duty visualization, · machine learning.

## **SCOB77\_Pratham Pitty**



Data amilysts bridge the gap

Data amilysts bridge the gap

between data scientist and business analysts

They are provided with the questions that

They are provided with the question and the preds answering from an eryanization and then, organize and analyze data to find resourthen, organize and analyze data to find resourthen, organize and analyze data to find resourthen align with high-level business strates

That align with high-level business strates

That and effectively communicating their findings to diverse Stake holders.

Table in the gap

Table in the gap

Table in the gap

The

\* Skills needed: -> programming Skills (SAS, R, Python)
Statical. Statistical and mathematical Skills odara.

Wangling, oddta visualization:

Data Engineers in angle exponenting

On the development deployment, Management and

Optimization of data pipe lines and infrastruce

to transform and transfer data to data scientific

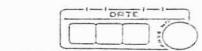
I for querying

Tools

\* Skills needed: \* Programming longuages (Juva, Scala)

No Sal database (Mongo DR, Ca ssandra DB)

Frame works (Apache Hadoop).



*	There are various applications of Data scient
	1 LITS. 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	• ID Education
	· Airline root planning
*	· Healthcare industry
	Delivery Logistics
	Bunking and Finance
	· Filtered internet Search
<u> </u>	a Oscalization of the same of
	· Digital Marketing and Advortising
-	Aid line root Planning
	IP Now adays Pata-science is revolutioning
	business activities in the Aixline industry
	poeriously due to competition, the Aixline
	companies used to provide: Hugh discount to
	cortombers to attract them and due to the high
720	rates of fiels and the lack of proper
	analysis for the delay of flight, destination
	traltes, etc giblines were spending at Lot on extratuel
	Now.
	With the help of data science of the airlines
	to Strated and yzing the data of their busings to Strategically improve the sectors due to which they were bearing heavy losses
	to Strategically improve the sectors due
	= to which they were bearing heavy losses
*	Data Science Helps oislines in following ways
(*)	• •
	. Identifying potential costomers to offex colculated
	e tdentifying potential costomers to offex coloulated discounts, instead of providing discounts to
	al everyone.

