IT ELECTIVE 1

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ASSIGNMENT #1 - DATA SCIENCE

Instructions: Kindly read all the questions and write your answer in yellow pad paper together with your Name, Year, Section and Signature.

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I WHAT IS DATA SCIENCE ?		
Data science is the process of using data to gain	n insights to address various ch	allenges. H involves collecting,
analyzing, and interpreting large amounts of	information. This is to guide bet	ter decision-making based on
data-driven insights.		
2. DIFFERENTIATE BETWEEN BUSINESS INTELLIGENCE	E (BI) AND DATA SUENCE ?	
Similarities:	Differences :	
# Both use data for making informed decisions.	(B) BUSINESS INTELLIBENCE	DATA SCIENCE
* They focus on analyzing historical data trends.	I Looks at past and present data.	Predicts future trends.
Visual tools like reports and dashboards are used	"What happened?"	"What will happen?", "What if.
in both.	Business-focused.	Research and exploration Focused
Both aim to optimize business operations.	a Deals only with structured data	Both structured and unctructured d
Both require technical proficiency to handle data.	a Analytic method-	. scientific method.
3. DISCUSS THE ROLF OF DATA VISUALIZATION IN DATA SCIENCE DATA AND FINDINGS ?	E. HOW CAN EXPECTIVE VISUALIZATION	us improve the inheappretation of
Data visualization makes data easier to understand by	y converting it into visual formats	like charts and graphs. This
makes it easier to quickly detect trends, anomalies	, and relationships within the di	ata. Good visualizations can
make complex data more accessible and lead to m	ore informed decision - making.	
4. LIVE ME AT LEAST (3) FUNDAMENTAL CONCEPTS	OF DATA CHENCE AND EXPLAIN ED	ACH?
· Communication: Communicating data finelings	is key. This involves using data v	rismalimention tools, creating dear
reports, and presenting results in a way that de	cition-makers con easily understa	nd. Storyfulling with data
transforms raw numbers into actionable insights.		
# computer science: This includes programming, data)	are management, and algorithms for	ir data processing. Halso covers
machine learning for predictions, distributed computing		
# Math concepte: Mathematics is consial in data set		
Statistics and probability help analyse data and make	predictions, while linear algebra is	foundational for machine learning.