National University of Modern Languages Islamabad DEPARTMENT OF SOFTWARE ENGINEERING FACULTY OF ENGINEERING & CS



Artificial Intelligence Assignment # 3

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Section: BSSE-V (Evening)

lot, or the internet of things, has revolutionized various industries and healthcare is no exception. Deep learning, a subtield et machine learning. Plays a coucial tole in enhancing lot applications in healthcare. Some of Deep Learning Techniques used are: 1 Disease Diagnosis:

Deep leas Deep learning volumes of medical deta, such as Patient seconds, medical images, and sensor data collected from wearable device. By training deep learning moders on these datasets, healthcare Projessionals can develop accurate diagnost

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1	Tools. These models can
1	identif Pattern and anomalies
	in data halling in the
	eaxily detection and diagnosis of diseases.
-	of diseases.
2	Predictive Analytics:
	Deep
	learning enables 10T devices
	to make Predictions bases
100	on real-time hearth data.
	By Continuously monitoring vital Signs, such as
	vital Signs, such at
3	heart rate, blood Presure, and
1	glucose levels, lot devices
1	can gather valuable data
1	700 analysis. Deep leasning
1	algorithms can then process
1	This dota to Predict health
1	visice, detect Potential complication
1	and Provide Personalized Treath
1	recommendation.
3	Remote Patient Monitoring
	TEMOLE TO

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	10T device equipped with sensors
-	can collect data Fram Patients.
	at home or in remote location.
	Deep learning madels can
	analyze this data, toacking Patient
	health toends, and alesting
1	healthcase Providers of any
	abnoomalities. This allows 700
	Progetive intervention, reducing
	hospital readmission and improving
	Patient autcomes.

4 Personalized Medicine:

Deep Deep learning algorithms can analyse large genomic datasets and identify genetic maskers that are acrociated with specify dicrase or treament response By integrating these Findings with 10T devices, healthcorker Providers can Passonalize. Localment Plans based on an individual's genetic

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Profile This a	Precach enables
	se and exective
therapies.	
The state of the s	The state of the s
Drug Disco	very:
3	Deep learning
models car	n be txained
on vast	amounts of
data includi	na chemical
structures, do	ing interestors,
and dise	ase tath ways.
By analyzi	ng this informent
By analyzi	roders can identify
Datastal do	ug Candiolottes or
Product the	CHECHVEYOS
· · · · · · · · · · · · · · · · · · ·	E CITICAIS.
ep1 11P	Me order
Process, leadin	g to more
efficient	and taxgeted
treatments.	
Deep leasnin	device in
empower 10	of device to
healthcase	applications to

Process and interpret complex
data phabling accurate alagnosis
Personalized treatment and
xeal-time monitoring a these
advancements improve partient
care, enhance disease managmen
and contribute to more
efficient hearthcare systems.
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