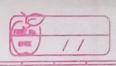
Jay .

Name: Deep Salunku Rollino: 21102 A0014 DIT: TE CMPM A Subjett: AI



OI Define the concept of intelligent systems in the context of AT. Discuss the fundamental characteristics that differentiate systems from traditional computing systems.

Intelligent systems are computer system which have intelligence similar to humans, these systems are designed to adapt , learn, make decision, solve complex problem and even improve themselve over time.

Following are some characteristic difference between traditional and intelligent systems.

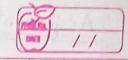
1 Adalota bility and learning

Traditional: Follow predefined rules and instruction
Intelligent: Adapt and learn from date and
experience. They can modify their
behaviour based on changing circumstances.

2 Decision- Making

Traditional: Runs deterministic Algoriths with fixed paths.

Intelligent: Use probabilistic reasoning and learning
Algoriths to make decision in
una stain and new environment.



## 3 Complex problem solving

Traditional: Can only solve structured problem.

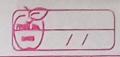
Intelligent: Can also solve unstructured problems,

by learning born other unstructured
problems.

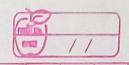
## @ Self improvement.

Traditional: One the code is withen, the logic remain unchanged and improve the program we have to manneally update it.

Intelligent: It can learn from the previous experience and improve on its



## Elaborate the current trends in AI 02] > Deep learning -> It is a subset of Machine learning that uses neural networks with multiple layers to model complex pattern -> It has achieved remarkable success in tasks such as image and speed recognition, natural language processing. Matural language processing CNILP) -> NLP involves the iteraction between computers and human language -> NLP has changed the world on long scale the bust examples at their indust LLM like Chat GPT, Bard Ethical Consideration in AI -> As AI tehnologies advance, ethical concerns have become paramount, issue indude subject like daty potray, social impact of AI. -> Addressing ethical considerations is cousial to build arsportible and trustweathy AI gots -> Effort doc being made In these direction by includy subject root-compands in As systems



## Explainable AI (XAI):

$\rightarrow$	XAI aims to enhance toursparency and interpretability
	in AI systems, allowing humans to undestand
	the decision-making proass of complex model
	As AI system beamy more sophisticated,
	understanding therir decision logic be comes
	crycial, especialy in critical domains like
	healtrane, finance javtonomous rehicle.

Teacher's Signature:....