

Subject Specific Skills

UNIT-1

AI Reflection, Project cycle and Ethics.

I Answer the following in short:

1. Define the term confusion matrix.

Ans Confusion matrix is a tabular structure that helps in measuring the performance of an AI model using the test data.

2. Why is data considered an important source of AI bias?

Ans The dataset for AI systems should be realistic and need to be of a sufficient size. However, the largest data collected from the real world may also reflect human subjectivity and underlying social biases.

3. What is an ethical concern of AI?

Ans AI is a powerful tool. It can be used in ways that can affect the society - positively or negatively. Like electricity or nuclear energy, a lot depends on us - how we utilise AI for humanity.

II Answer the following in brief: IA

1. Give any three important applications of AI in real life?

Ans

AI in Healthcare:

→ For saving human lives the medical industry is relying on AI in many fronts. Healthcare organisations are using IBM Watson for medical diagnosis.

→ Google's DeepMind has successfully developed a system that can analyse retinal scans and spot symptoms of sight threatening eye diseases. AI is used in diagnostic centres to analyse samples of tissues and provide accurate results.

AI in Agriculture field:

→ AI can help farmers to get more from the land and use resources more sustainably.

→ Blue River technology developed a robot called See & Spray, which uses computer vision and image recognition software to monitor and precisely spray pesticide on cotton plants.

→ Plantix mobile app uses AI powered image recognition software to help farmers to detect plant diseases.

AI in Education for Automated Grading system:

→ AI in the assessment process provides real-time learning feedback to teachers and students.

→ Through Machine Learning and data analysis using AI, human patterns of data are studied.

→ This helps in a quick and fair grading system without human intervention.

PART-A Employability Skills

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Chapter - 2 - Self Management Skills - II

I Answer the following:

1. What is Self-management?

Ans Self-management in simple language means managing yourself. It's taking the responsibility of managing our own behaviour and actions.

It is basically the ability to organise yourself with positive energy for the overall development in professional, personal and social life.

2. Define the term Self-confidence.

Ans Self-confidence in simple language means believing in yourself by believing in your own abilities, strengths and judgements.

3. What is Self control? Give one example.

Ans It is the ability to manage your impulse, emotions and behaviour. Know yourself so you can manage your emotions and impulses. It acts as a force to have a more successful and satisfying life. For eg, Indian system of fasting is an excellent example of Self control. Fasting restricts a person from eating specific food.