"Artificial Intelligence for Engineering/Engineers (KMC-201)"_

UNIT-2: DATA And ALGORITHMS

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TOPIC ON: Data And Data Types

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What is data and its types

 The information that we collect from the environment around us is called data in its initial form. Data can be about any fact like object, name, idea, place, quality etc. For example, the name of persons, salary of person, name of student, name of subjects, marks etc.

 To get any information, we collect data i.e. data. Data is a collection of information, facts and figures which are collected both systematically and unsystematically. The necessary information is obtained by processing the data by computer.

 A haphazard collection of facts and information is called data. Data is a fact that does not have any special meaning in itself, but has a value, Numbers, Letters, Text, Image, Audio or Video, any of these data can be.

Types of Data

Numeric Data :
 It is a data made up of numbers from 0 to 9 (total 10). Arithmetic functions can be performed on Numeric Data. Numeric data is the total number of students in a class or their marks in the examination.

Alphabetic Data :
 It is the data made up of all the letters of the alphabet. For example, the letters of the English alphabet (A, B.......Z) or the letters of the Hindi alphabet (A, B, ...J) etc. The names of students in a class are alphabetic data.

Alphanumeric Data :

It is data made up of all numbers, all letters and special characters. Arithmetic operations cannot be done in this, but they can be compared. The address of the students of the class is Alphanumeric Data.

Sound Data :

This includes all types of sounds and sounds stored on the computer.

Graphics Data :

This includes data stored in the form of images, graphics.

Video Data :

In this comes the data made from all types of moving pictures.