Data / Information:

Insight – hidden knowledge.

AI -> ML – P&S ->PM

Structured – can be easily accessed and could be understa

ndabl.DBMS

Unstructured data : multiple form of data present.

Semi structured data : Structured + unstructured. sources are emails, XML and other markup languages,

Categorical Data: Categorical variables represent types of data which may be divided into groups. Examples of categorical variables are race, sex, age group, and educational level.

Numerical Data : Discrete / Continuous Data:

Examples of numerical data are height, weight, age, number of movies watched, IQ, etc. To graph numerical data, one uses dot plots, stem and leaf graphs, histograms, box plots, ogive graphs, and scatter plots.

Discrete -> there is no fraction in the data example 25 NOT 25.4

Range specific data is continuous data : example [0, 1] range.

Web scrapping : access data from web servers.

Using python u can access the data:\

Packages of python: Beautiful Soup :

Scrapy: used to access the excel data aswell Database data

AI is major part of the datascience

NLP : Natural Language Toolkit (NLTK)

Giving task to a machine by giving set of inputs which gives processed output and estimate the Performance.

There are four types of machine learning algorithms: supervised, semi-supervised, unsupervised and reinforcement.

Supervised machine learning models are trained with labelled data sets, which allow the models to learn and grow more accurate over time. For example, an algorithm would be trained with pictures of dogs and other things, all labelled by humans, and the machine would learn ways to identify pictures of dogs on its own. Learning from past experiences.

Unsupervised M L: first you need to group them then you label or name the groups. 2 types :

1. Clustering or grouping based on Similarity.
2. Association Rule : item association, one item is associated with other item.example recommendation in amazon when purchasing products

Semi Supervised learning:

Python : Loops , conditional structure, Dictionaries , operation

1. File Handling , Oops , Exceptional Handling

ML (

Websites:

Kaggle

UCi machine learning. Download

Practice : numphys , array , Pandas