Agenda:-

1. What is Data?

2. What is Information?

3. Types of Douta.

4. What is Ml?

5. Types of ML.

6. Common Apps of ML

J. Data platforms. for finding datasets. 8. Odd no.

Nhat is Data?

9:- 1. Count of Some object

10. runs 2. Score

85 1. - Score of bassman. Oge

a student

The an exam.

1. What is Data?

9:- 1. Count of Some object

10. runs 2. Score

5. mancs

6: Int

7. Specal.

85- abstract - Data is values

85-1. - conclusion.

Values can either

be a numeria

or text value

to maye

to min some context. or audio be a numerial Data - Values - Mumerical Text

Paris Data

Numerical value - 85

Text value - Paris

place Paris France hollynood Paris Hilton achier name

3. Type of Data.

Numerical

Continuous

Continuous

data

Numinal

Ordinal

Discrete

Continuous Data: - eg: - Height & Weight

1st 165.3cm 57.3k

2rd 172.4cm 60.5kg

Meight

165.32 cm

165.32 cm

Meight

165.32 cm

165.32 cm

Mominal: Data has no specific order

(No-minol) eg: - Name of all emp

(No-order) lame of States of a campy

X — X — X — X—

Ordinal: - Data here has a specific coder

(Order) eg: - Grodes: - A, B, C, D, E

(Ord-incl) Rang: - Good, Bad, Poor.

Discrete: - A numerical data on which

You cannot perform any
mathematical operation
like ovey, sum, std-dev...

eg:- 1 2 3 4 5

1.5 3.7564

3.1399

O, 40, 60, 80, 100

Numerical

Cannot apply any arithemetic

operations on this data.

 $\frac{100 - 100}{80 - 100} - 80$ $\frac{60 - 80 - 60}{40 - 60} - \frac{40}{40}$ $\frac{0 - 40 = 0}{0 - 40}$

Age: - 35 cs 36 or 34

35.5436

Discrete: -ONo decimal values

@ Whole Mos. 1, 2, 3,

* Nort of times discorde data will be "id's' columns

ag: - EmpID

Pousenger ID

Avg of EmpID Student ID

iga

100/2 = 50

Al What is Machine Learning? Before ML:
Data imput Programmer

Will unfe

code to

find patterns

form the

data

New Section 1 Page 13

With Machine Learning.

Data input

Mr Algorium

For find jatterns

In the data

Code to find pattern is

without algorium.

Types of Machine learning

Supervised Unsupervised Semi-Supervised ML Algo ML Algo ML Ago

Must have of our time

Variable Features Columns

In a dataset, there a 2 types of
Variables

Independent
Variables

Variables

Yrs dExp Salary

2,50,000

5,50,000

Salay:-Dependent Variable

 Mr brocers:-

Mc process.—

Dependent Variable (In a clataset three will be only 1 dependent variable & many
Independent Variables)

2) Always find the data types of country

(lassification

Should be categorical (Norminal, Ordinal, Disant)

Regression: - Linear Rey, Decision Tree Regressor,
Randomforest Regressor, Krin Regressor,
SVM Regressor, etc.

Classification: - Loy Reg Decis in Trac (lassifier, Randon Forest Classifier, Knn Classifier SVM Classifier, NIB Classifier

Common Applications of ML Alga (i). Chatapt

Amazon Product Recommendation

Alexo, Siri

a Self-Dring Cons.

(5) Netflix Mine. Recommondation

24 April 2023 21	Unsuperiosed MIL Algania No Dependent Variable	K Means (Wstermy)
A .	No Dependent Variable	DISSCAN, Hierarchian Clustering
3	Semi Supervised ML Alg Krasenth	

Online Jupypter Notebook: - Google Colab.

