Data Analytics MSCSA-134 CIA-3

1)

A) Revenstein Distance / Augustum:

hij (x,y): R dit distance diawan the first is almost of sc and the first j alaments of y

$$k_{ij} = \begin{cases} i & j=0 \\ i = 0 \end{cases}$$

$$m_{in} \begin{cases} \lambda_{i-1,3} + 1, \lambda_{i,3-1} + 1, \lambda_{i-1,3-1} \\ + p(\hat{x}^{(i)}, y^{(i)}) \end{cases}$$

$$// p(x,y) = \begin{cases} 0 & \text{if } x = y \\ 0 & \text{otherwise} \end{cases}$$

Prendocode:

$$664 S = 1, ... i$$

$$As(s) = S$$

$$664 t = 1, ... j$$

Les = t

If the 8, 952, down't model.

(1) S & H down't match hence.

min (1,0,1) + 1 = 1 (0+1)

- (2) $S \neq 0$ down4 match. min (1,1,2)+1=2.
- (3) SyR down H match. min(2, 2, 3) + 1 = 3.
 - (4) S&S match. hence the diagonal element are common
 - (5) S g'i doun't match.

 min (3,4,0) +1=4.

Here fore after using the algorithm were know that the wer much string to be buter with another to obtain the fairable output.

Rdit distance [vulfication]

HORSE

JJJJJ

SORSE

... edit distance is 1

Uling the 3 cineration, deletion & substitute use can contain the adit distance.

Here we sale H -> 5 the Rest remains the some.

S= Substitution

Distletta de le unstiin matrix.

	,	S	0	RS	SE
	0	1	2	3 L	1 5
Н	1	1	2	3	45
0	2	2	1	2	3 4
R	3	3	2	į	2 3
S	4	3	3	2	1 2
E	5	4	4	3	20
					dit dista is (i)

Application of edit distance:

- * It's application in that it can be one of it is used in spece check (Auto correct)
- x It is used to find the distance between the string's
- I I is also used in the dictionary to display all the words in that near proximity.

mun (3,4,0) +1=4

there fore after using the algorithm were know that the wer need I stainly to the bules with another to obtain the fairable output.

2) Featur Selection:

headown allotion is the powers when are automaticaty. manually belief those postury I flights which contribute. most to your prediction variables or output analysis if one telect irrelevant feature in the field / flees in the doda it oreduces the accuracy of the moder of make's it issuelevant feature.

Importante of Fs.

4 It unally the machine decening asgerithm to about faths.

* It or dues the complicity of a model or make it easing. to interpret

* It imported the accustage of a modul in the sight

x It reduced onerstaing.

Retugend features - whose sheet in need to perform un.

I sectured features - whose that are simply unneared.

Redyndowst feature - whose that discons were alled in the persons of others

1 8 main cottagetus of fratus selecation.

-> 41th mushbady -> waappu methoody -> umbeddud muthoody

Redyndowst feature - those that decome inversaline I sselevent foctuses - thou that are simply unmercy. in the presence of others

48 main eatly of features selection.

& Little mulliady

- Waraphy methody

- unreaded methody

Bon chuichy on freature relection.

Potential Meny 1243?

-> To impuse accused

> Reduse conjustation.

- Reduce cost of fitting meadurements

=) Impereusal dota / modul unquistanching