DEPARTMENT OF COMPUTER SCIENCE INSTITUTE OF MANAGEMENT AND RESEARCH, JALGAON

Name loke Pratiksha Rai	• •
Expt. Title Implement the and it	
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Roll No. 130 Eyet No. 60	Performed on
	Submitted on
2 1 2 A	Deturned an

* Candidate - Elimination Algorithm.

The candidate elimination algorithm incrementally builds the version space given a hypothesis space H and a set f of example.

Algorith :-

Step 1: Load Data set

Step2: - Initialize General Hypothesis and Specific hypothesis.

Step 3: - Por each training example.

Step 4:- IF example is positive example

if attribute -value = hypothesis -value:

Do nothing
else.

replace attribute value with 'P' (Basically generalize it)

Step 5:- IF example is negative
make generalize hypothesis more
specific e.

Example

					1 4 1 1 1 2		
	SKY	Temp	Hymid	wind	water	Forest	output.
	Sunny		1		,	4 7	Yes
Cer	Sunny	coarm	high	Strong	bourm	same	yes.
nplete for :	***		high	strong	moum	change	No
w Chart ogramme Listing sults	Sunny	mww	Mgh	5 trong	cool	change	462
mments							9.7

```
Trificilly:
 er=[[5'5'5'5'5'5'5], [6'5'6'5'5'5] [6'6'5'5'6'6'6'6']
 Chuk, hull, hull, Hull, Null, Mull, Mull) = 2
  Por instance 1:-
    <'sunny', "warm', "Normal', "strong', "warm', "Same's
    and positive output
   G1 1 = G1.
 SI=['sanny', 'warm', 'Normal', 'strong', 'warm', 'same']
  For Protance 2:-
  < 'sanny', "warm', highestrong', warm', same'
         and positive output.
      G12 = G1.
    Sz=[154nny1, warm1, R, (strong ; (warm1, same]
  for Instance 3:- .
 <'rainy', 'Cold', high', strong', warm! 'Change' and negative.</p>
 C13=[[,sunny, 6, 6, 6, 6, 6] [5, , warm, 8, 8, 8, 8, 8]
                                                output.
[3, 6, 6, 6, 6, 5, 5] [5, 5, 6, 6, 6] [5, 6, 6, 6, 6, 8]
   [ 9, 9, 9, 9, 8, 8 amei]]
         5,3 = 5,2
 For instance 4= 2'Sunny', 'warm', 'high', 'strong', 'cool',
    G14=673
   54=['Sunny: 1 warm', ? ! strong', ? , ?]
 At last by synchronizing the Gy & 34 algorithm
output some production dell bis
& =[['sunny',8',8',8',8'][8",00,000; 8'8'8'8]]
5 = ['sunny', warm', 9, (strong', 9, 9]
```