SESSION-12 ACTIVITY

concept Learning

concept learning: Acquiring the definition of a general category from given sample positive and negative training examples of the category Learning can seen as a problem of Searching through a predefined space of potential hypotheses for the hypothesis that best fits the training examples. The hypothesis space has a general to-specific ordering of hypothesis and the search can be efficiently organized by talking order of a naturally occurring structure over the hypothesis space. These special features differentiate the set of cars, trucks, etc from the larger set of vehicles. These features that define the set of cars trucks etc are known as concepts

similar in this, machines can also learn from concepts to identify whether an object belongs to a specific category or not.

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Traing Data
Target concept
Actual Data Objecto

## a. General Hypothesis

Hypothesis, in general, is a example for something. The general hypothesis basically states the general relationship between the mojor vasiable. For example, a general hypothesis for ordering food would be I want a burger

G= {?',?',?'--.?'}

## 8. specific alypothysus

The specific hypothysis fills in all the imp details about the variable given in the general hypothesis. The more specific details into the example given above would be I want a cheeseburger with a chicken perperoni fitting with a lost a lettuce.

S= { 0', 0', 0 - - - , 0 3

Now, Let's talk about the Find-s Algorithm in Machine Learning gerinens) spare

Initialize h' to the most specific hypothesis

algorithm only considers the positive examples and find-s eliminates nagative examples For each positive example, the algorithm checks for each attribute in the example of the attribu value is the same as the hypothesis value, the algorithm moves on without any changes.

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