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**Cloud Computing for Data Analysis**

**VIDEO CASE 08 : Action Rules**

Watch following videos:

**Video 1:** https://youtu.be/3ZdhhuqypDM

**Video Case Questions:**

• What are differences between Classification Rules and Action Rules?

A) The major differences between Classification Rules and Action Rules are:

• At their syntactical level. The classification rules have only one attribute in its consequent part. But the association rules can have many attributes in its consequent part.

• The classification rules are poorly defined, and they are non-deterministic tasks i.e. there is no high predictive accuracy on the test set. But the action rules are deterministic. They also have higher predictive accuracy.

• Under fitting or over fitting the avoidance is a major concern for classification rules. This is not the case for action rules.

• How the attribute set in a dataset should be divided for Action Rules?

• A) The attribute set in a dataset is divided into two parts called conditions and decisions.

• The stable attributes and flexible attributes come under the conditions. There is only one decision attribute which is taken for simplicity.

• The stable attributes are a function of time. They undergo deterministic changes and, they can be assumed as a division of conditional attributes. The examples of some stable attributes are height, age etc.

• The flexible attributes can perform actions. The values in these attributes can perform action. We can also lower the costs by providing a strategy.

• -The decision attribute d which is assumed is also essential.

• In what other application action rules can be applied?

• A) The action rules can be applied in some of the fields like:

• Business – how to increase profit.

• Medical – how to decrease tumor severity

• Social Networking – how to increase friends.