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**Cloud Computing for Data Analysis**

**VIDEO CASE 08: Action Rules**

1. What are differences between Classification Rules and Action Rules?

**Answer**:

|  |  |
| --- | --- |
| Classification Rules | Action Rules |
| Classification rules are used to classify data based on specific regional class. Eg, given a population, where each individual is a part of different sets of classes. The rules help us predict non-participating individuals who ‘possibly’ could be a part of specific set. | An action rules tell us how a specific attribute transitions over states, with respect to the decision attribute. Furthermore, these rules are extracted from stored knowledge aka datastore. |
| It indicates sorting of each piece of data based on conditional statement. | Action rules use pre classification knowledge to label attributes as ‘Flexible’ or ‘Stable’ |

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

**Answer**:

* **Decision Attribute** –This is affected mainly by flexible attributes since stable attributes don’t change.
* **Stable Attribute** – The values in this attribute always remain constant.
* **Flexible Attribute** –Changes value based on data, that’s why the name Flexible.

1. In what other application action rules can be applied?

**Answer**:

* **Personalization in IOT devices:** The action rules can be used to identify a person’s device using habits which then can be rendered to other IOT applications.

<https://dl.acm.org/citation.cfm?id=3057861>

* **Social Networks** – On how to increase the number of friends a person
* **Business** – how to increase the profit margins of the business in different areas.