lule band classification (1)Rule Sterch If condition Then conclusions
Indicated the consequent
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How does Rule-based Classifier Work?

R1: (Give Birth = no) ∧ (Can Fly = yes) → Birds

R2: (Give Birth = no) ∧ (Live in Water = yes) → Fishes

R3: (Give Birth = yes) ∧ (Blood Type = warm) → Mammals

R4: (Give Birth = no) ∧ (Can Fly = no) → Reptiles

R5: (Live in Water = sometimes) → Amphibians

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A lemur triggers rule R3, so it is classified as a mammal

A turtle triggers both R4 and R5

A dogfish shark triggers none of the rules

Characteristics of Rule-Based Classifier

- Mutually exclusive rules
- Classifier contains mutually exclusive rules if no two rules are triggered by the same record
- Every record is covered by at most one rule
- Exhaustive rules
- every possible combination of attribute values

 Each record is covered by at least one rule Classifier has exhaustive coverage if it accounts for