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Master of Science in Computer Science
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Data Mining – Sample Questions

Describe and discuss the LMS algorithm.

Describe concept learning as search.

Describe and discuss the Find-S Algorithm

Describe the candidate elimination algorithm

Discuss the fundamental property of inductive inference.

Discuss the differences between biased and unbiased learners illustrating with examples of existing systems.

Describe and critically discuss decision trees

Describe the ID3 Algorithm and information gain.

What is overfitting and how can we deal with it in decision tree learning?

Describe and critically discuss the sequential covering algorithm.

Describe and critically discuss general-to-specific beam search,

Describe and critically discuss the basic FOIL algorithm and FoilGain measure.

Describe k-nearest neighbor learning and the K-NN algorithm.

Describe locally weighted regression.

Describe the relationship between Bayes theorem and the problem of concept learning?

Describe and explain in detail the Minimum Description Length Principle.

Describe and discuss Bayes Optimal Classifier

Describe and discuss Naïve Bayes classifier

Describe and discuss the perceptron training rule

Describe the gradient descent algorithm.

Describe and critically discuss Support Vector Machines.