Machine Learning - Answer Key

Multiple Choice Questions - Answers

Q: The process of learning from examples and generalizing to unseen cases is called A: B. Concept learning
Q: The Find-S algorithm is used to A: B. Find the maximally specific hypothesis
Q: In concept learning, the space of all hypotheses consistent with the training data is called the
A: B. Version space
Q: Decision trees are most appropriate for A: B. Problems with discrete, categorical outcomes
Q: Big Data is that which
A: B. is huge in volume, yet growing exponentially with time
Q: The algorithm that searches the hypothesis space to find the most specific hypothesis consistent with positive examples is
A: C. Find-S Algorithm
Q: The inductive bias in decision tree learning is that
A: A. Simpler trees are preferred over complex ones
Q: The process of removing inconsistent hypotheses from the version space is known as
A: B. Candidate Elimination
Q: A key limitation of the Find-S algorithm is that it
A: A. Fails to guarantee finding the target concept
Q: Inductive bias in machine learning refers to
A: A. The set of assumptions a learner makes to generalize
Fill in the Blanks - Answers
O: The Find-S algorithm is used to find the hypothesis that is consistent with all

positive examples.
A: Maximally specific
Q: In decision tree learning, the search strategy employed is known as
A: Greedy search
Q: In concept learning, the process of narrowing down the set of hypotheses by eliminating those
inconsistent with examples is called
A: Version space
Q: is the assumption made by a learning algorithm to generalize beyond the observed
data.
A: Inductive bias
Q: A decision tree is most appropriate for problems where the target output is
A: Categorical
Q: The initial hypothesis in the Find-S algorithm is set to the hypothesis.
A: Most specific
Q: The algorithm is used to systematically eliminate hypotheses that do not fit the training
data.
A: Candidate Elimination
Q: In decision tree learning, refers to the preference for simpler hypotheses over complex
ones.
A: Occam's Razor
Q: The process of learning a decision tree from labeled examples is called learning.
A: Supervised