Assignment 10

The due date for submitting this assignment has passed. As per our records, you have not submitted this assignment.

1. What is recognized for developing the first machine learning program, capable of playing and winning checkers? 7 point
   - A. John McCarthy
   - B. Arthur Samuel
   - C. Herbert Simon
   - D. Tom M. Mitchell
   No, the answer is incorrect, Section E. Accepted Answer: B. Arthur Samuel

2. The approach for modeling the relationship between a causal dependent variable if one or more explanatory variables (or independent variables) is/are provided is: 1 point
   - A. Regression
   - B. Discrimination
   - C. Clustering
   - D. Matching
   No, the answer is incorrect, Section E. Accepted Answer: A. Regression

3. On the hot summer of Artificial Intelligence activity, the one that stands out and significantly enhances human intelligence... 7 point
   - A. Cognitive approach
   - B. Engineering approach
   - C. Machine learning approach
   - D. Symbolic approach
   No, the answer is incorrect, Section E. Accepted Answer: B. Engineering approach

4. Which of the following statements are correct for Machine Learning in媳e-Score? RSR? 7 point
   - A. Machine learning deals with data-driven and decision-making.
   - B. It requires a lot of data for building a model.
   - C. It can be used for both classification and regression tasks.
   - D. It can only be used for classification tasks.
   No, the answer is incorrect, Section E. Accepted Answer: B. It requires a lot of data for building a model.

5. Machine learning algorithm that attempts to estimate the mapping function from the input variables to discrete or continuous output variables. 7 point
   - A. Classification
   - B. Clustering
   - C. Matching
   - D. Regression
   No, the answer is incorrect, Section E. Accepted Answer: A. Classification

6. Information content is the average information per message. Information content is also called ________ 7 point
   - A. Common Knowledge
   - B. Incidence
   - C. Knowledge
   - D. Information gain
   No, the answer is incorrect, Section E. Accepted Answer: C. Knowledge

7. In pure inductive inference, given a collection of examples off, learn a function f that approximates f. The function f is called ________ 7 point
   - A. utility function
   - B. hypothesis
   - C. approximate function
   - D. classifier
   No, the answer is incorrect, Section E. Accepted Answer: B. hypothesis

8. To implement Change attribute in the C4.5 algorithm, we need a normal measure of "hardly good" and "hardly useless", specifies a mathematical basis for measuring the information content. 7 point
   - A. Information Theory
   - B. Utility Theory
   - C. Decision Theory
   - D. Probability Theory
   No, the answer is incorrect, Section E. Accepted Answer: A. Information Theory

9. Q0—Q4. Architecture of a learning agent has FOUR components. Learning refers to the capability of autonomous acquisition and integration of knowledge. 1 point
   - A. Learning element
   - B. Performance element
   - C. Problem generator
   - D. Critic
   No, the answer is incorrect, Section E. Accepted Answer: A. Learning element

10. This element selects external actions and drives the learning element, collects samples, decides actions. 1 point
    - A. Learning element
    - B. Performance element
    - C. Problem generator
    - D. Critic
    No, the answer is incorrect, Section E. Accepted Answer: B. Performance element