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| 1. Define a well-posed learning problem with an example. |
| 1. State the concept of inductive bias in machine learning. |
| 1. Explain the Find-S algorithm with a simple example. |
| 1. Find the maximally specific hypothesis using the Find-S algorithm for a given set of training data. |
| 1. Define the version space in concept learning. |
| 1. Define a neural network. |
| 1. State the role of perceptrons in neural networks. |
| 1. Explain the significance of the back-propagation algorithm in training neural networks. |
| 1. Identify appropriate problems for neural network learning. |
| 1. Define the concept of hypothesis evaluation in machine learning. |
| 1. Define Bayesian learning. |
| 1. State Bayes’ theorem and its application in machine learning. |
| 1. Identify the role of the Naïve Bayes classifier in text classification tasks. |
| 1. Explain conditional probability |
| 1. Define the EM algorithm and its significance in machine learning. |
| 1. Explain the concept of maximum likelihood hypothesis. |