O.10

		INDIE 3.12. DO	IADIE 3:12. Dala sel loi Evelvise II.	
Mileage	Engine	Air Conditioner	Number of Records with Car Value=Hi	Number of Records with Car Value=Lo
Hi	Good	Working	က	4
Hi	Good	Broken	П	2
Hi	Bad	Working	1	വ
Hi	Bad	Broken	0	4
Lo	Good	Working	6	0
Го	Good	Broken	വ	Ţ
Lo	Bad	Working	П	2
Lo	Bad	Broken	0	2

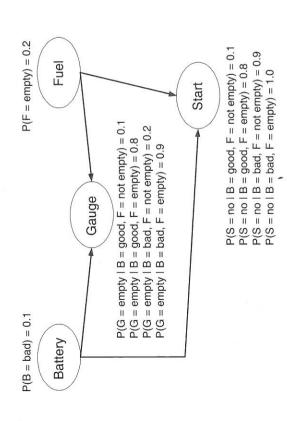


Figure 5.48. Bayesian belief network for Exercise 12.

- (a) Classify the data point x=5.0 according to its 1-, 3-, 5-, and 9-nearest neighbors (using majority vote).
 - (b) Repeat the previous analysis using the distance-weighted voting approach described in Section 5.2.1.
- 14. The nearest-neighbor algorithm described in Section 5.2 can be extended to handle nominal attributes. A variant of the algorithm called PEBLS (Parallel Examplar-Based Learning System) by Cost and Salzberg [171] measures the distance between two values of a nominal attribute using the modified value difference metric (MVDM). Given a pair of nominal attribute values, V₁ and