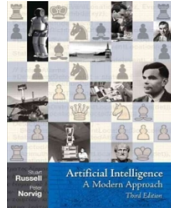


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Chapter: Problem:

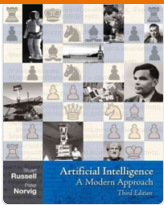
Consider an ensemble learning algorithm that uses simple majority voting among K learned hypotheses. Suppose that each hypothesis has error ϵ and that the errors made by each hypothesis are independent of the others'. Calculate a formula for the error of the ensemble algorithm in terms of K and ϵ , and evaluate it for the cases where $K = 5, 10$, and 20 and $\epsilon = 0.1, 0.2$, and 0.4 . If the independence assumption is removed, is it possible for the ensemble error to be worse than ϵ ?

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