

Assignment 1, Pattern Classification

Answer the following questions to the best of your abilities. Answers should be of reasonable length, not too short or too off point.

What do you understand by Pattern recognition? Why do we need it?

Your answer

What do you mean by decision cost? Give an example where making a choice between two options would have equal cost and an example where the cost would be different.

Your answer

Why do we need generalization in our classifiers?

Your answer

What factors should we keep in mind when selecting features for our classifier?

Your answer



Calculate a patient's probability of having liver disease if they are an alcoholic. A is the event "Patient has liver disease." Past data tells you that 10% of patients entering your clinic have liver disease. $P(A) = 0.10$. B is the event that that "Patient is an alcoholic." Five percent of the clinic's patients are alcoholics. $P(B) = 0.05$. You might also know that among those patients diagnosed with liver disease, 7% are alcoholics.

Your answer

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