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## Question: Given a dataset {x1; x2; :::; xn }containing samples drawn fro...

Given a dataset  $\{x_1; x_2; \dots; x_n\}$  containing samples drawn from an unknown data distribution p(x), we

want to learn a distribution  $p \in (x)$  that is as close as possible to the true distribution p(x). Consider two cost

functions to find the optimal p $\bigcirc$ (x):  $D_{KL}(p(x)I \ p\bigcirc$ (x)) and

 $(p \ominus (x) p(x))^2 dx$ . Choose the best cost function out of these.

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Anonymous answered this

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**Expert Answer** 

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Here is the solution to the problem: -

According to my suggestion best function will the function which minimizes the error.

Because the main reason we use the cost function to reduce the error in the data and will help us to best fit the line with the actual and predicted value of a model.

As I can see that you have two cost functions one is

 $P\Theta(x) : DKL(P(x))|p\Theta(x)$ 

and the Other one is

$$\int \mathbf{x} (\mathbf{P} \mathbf{\Theta}(\mathbf{x}) \mathbf{p}(\mathbf{x}))^2 d\mathbf{x}$$

According to me, you should go with the 2nd cost function. Because in this we are integrating the function and also it will help us to best fit the line and reduce the error in the data. The 2nd function will help in saving time and cost.

The Solution is perfectly working and correct to my knowledge.

I really tried hard to solve the problem.

So please like the SOLUTION.

If you have any doubts please ask in the comment section. don't dislike the solution before asking in the comment section. If I am not able to solve your problem then you can dislike the solution.

I am happy to help.

I am hoping that now your problem is resolved.

\*\*\* Please like the solution if it is helpful\*\*\*

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Q: For a fully discrete whole life insurance of 100,000 on (35) you are given: (1) Percent of premium expenses are 10% per year. (ii) (iii) Per policy expenses are 25 per year. Per thousand expenses are 2.50 per year. (iv) All expenses are paid at the beginning of the year. (v) 1000P3s = 8.36 Calculate the level annual premium using the equivalence principle.



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lady. You can buy each of these treats in exchange for Collectible-Wizard cards, and you may win a set of new cards as well. You can stop buying these treats either when you have 0 cards or a maximum of double  $(2 \times )$  the number of starting cards  $(\times )$ . Say you have 20  $(\times )$ .

A: See answer

100% (1 rating)

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