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For K nearest neighbour, I have used AUC as my evaluation metric.

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The metric has given me a value of 0.5. For the business problem I am dealing with, being perfectly accurate is not a demand.

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The resource manager can always intervene and correct the prediction. But since the company is really big, even if a percentage of outputs are correct, by expected value framework, the benefit can be tremendous.

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The Rplot for AUC have been attached herewith.

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