

Dear Mr/Ms. Consultant,

My name Cletus Spuckler. I am a male aged 35. I recently won a world-renown yodeling competition, and want to put these funds to use. Good timing, because I also just watched a documentary on strokes, and that's a scary thing that can happen. I'm concerned that if I had a stroke, it may hinder my ability to perform my employment (professional yodeler) and enjoy my hobbies (riding elevators).

In my own research, I found this website that has data on some people and whether they had strokes or not <https://www.kaggle.com/competitions/playground-series-s3e2/data?select=train.csv>. I'm hoping that you can use this dataset to help me answer a few questions:

1. How well can you do compared to others on the leaderboard? I need to make sure you are qualified in order to trust your answers for the next questions. Also, they use this thing called "area under the ROC curve" so it'd be nice if I could get a good explanation of that too.
2. How likely am I to have a stroke by the time I reach age 40? Is there any way to "quantify the uncertainty?" (*Dr. Risk told me about that term – not sure what it means, maybe you can tell me.*)
3. What are the most important things I can personally do in the next 10–20 years to reduce the chances of me getting a stroke? (*Note: Dr. Risk also told me about this "correlation is not causation" thing, but I don't believe in it – just treat 'em like they're the same in this context.*)

Thank y'all very much. You will be compensated generously.

Yodelayheehoo,

Cletus Spuckler