DRILL : Regression or Classification

1. The amount a person will spend on a given site in the next 24 months:
   1. Regression, since the amount could be a continuous number with lower bound $0.00 and theoretically limitless upper bound.
2. What color car someone is going to buy:
   1. Classification, assuming you have a list of all the colors a car maker or dealer makes available.
3. How many children a family will have:
   1. Could technically be both but more likely Classification since they will probably have a number of children between 0 and 10 and there is no possibility of having a non-whole number.
4. If someone will sign up for a service:
   1. Classification, they either will or will not(yes or no) so it’s classification. You could also output the percent likelihood of both outcomes.
5. The number of times someone will get sick in a year:
   1. Another one that could go both ways depending on how you wanted to frame your answers. If you are looking for a frequency you could go Classification and see how many people fall into each bucket(got sick 0, 1, 2, 3,…etc times) or you could make it regression and say the average person will get sick 2.76 times and the percentage is a continuous variable.
6. The probability someone will get sick in the next month:
   1. Classification, although it seems like this would be regression since it will be a percentage outcome that could range anywhere from 0 to 100%(continuous) I think the outcome would be a binary (yes/no) with probabilities attached to each.
7. Which medicine will work best for a given patient:
   1. Classification, you will have a list of medications available, the output will either be the best medication or the percent likelihood of each available medication.