

Trupanion Data Scientist Skill Assessment

Please complete the following 2-part homework to the best of your ability. Your submission will provide us with a work sample to evaluate as well as give you a sense of the type of work we do.

Part 1 – Modeling

As an insurance company, we collect premium on a monthly basis from our customers. We then cover the customer's veterinary bills should their pets receive medical treatment. Given the attached claim and pet data, predict how much we'll pay in claims per pet in the following month.

- To clarify, I'm expecting a predicted sum for every PetId for the month of July 2019, along with the code you used to generate the solution
- We typically use jupyter notebook, but feel free to use whatever language/tool you're most comfortable with

Part 2 – Short Answer

Suppose our team is tasked with going into another insurance company and building an end-to-end solution to automate their claims process. Provide a summary of the work that needs to be done to accomplish this task.