

Logistic Regression Homework

For this assignment you will sketch each step you would need to learn the weights using logistic regression. You don't actually have to come up with the weights in this homework.

- Consider the dataset to the right with a dependent variable *Heart Rate* and a dependent variable *Heart Attack*.
- Describe each step you would take to learn the weights for the data set on the right using logistic regression.
- Given a new input heart rate of 60, describe how you would generalize the probability of a heart attack?

| Heart Rate | Heart Attack |
|------------|--------------|
| 50 | Y |
| 50 | N |
| 50 | N |
| 50 | N |
| 70 | N |
| 70 | Y |
| 90 | Y |
| 90 | Y |
| 90 | N |
| 90 | Y |
| 90 | Y |