

Task 1

You have a historical dataset of 3000 observations with the target. An observation is a customer targeted by a firm through promotional email campaign. The target variable shows whether the customer responded the promotional offer (1) or not (0). For the next campaign, the firm has enough budget to target only 100 customers out of 333 observations. Your task is to rank all those 333 customers based on their likelihood of responding to an offer (descending order) to allow the firm select top 100 as a target for promotion. Use data from train.csv to train a model for the task. Submit both your code as well as ranking for customers in test.csv.

Task 2

Try to detect any 2 of the following movements in a video stream:

- Head nod (Move up-and-down indicating yes)
- Head tilt (right/left)
- Eye movement left and right (eye pupil movement)
- Eyebrows raised

You are encouraged to test it on yourself using a webcam yet you are required to submit only your code.

Hint: dlib and opencv packages may help you to accomplish the task.