# What is Machine Learning? In-class Exercise 2

EL-GY 6143 Intro Machine Learning. Prof. Sundeep Rangan

## Question

For each machine learning problem below (Problem 1 to 5), determine which type of ML algorithm would be best:

* A. Supervised learning: Classification
* B. Supervised learning: Regression
* C. Unsupervised learning
* D. Reinforcement learning

For supervised learning problems, state possible predictors and target (There is no single correct solution).

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| Num | ML Problem | Algorithm: A to D |
| 1 | Estimate the increase in sales from attributes of an advertising campaign. |  |
| 2 | Predict if a tissue sample is cancerous or not from an image of the tissue. |  |
| 3 | Train a computer to steer a car from camera data. For training, you have recorded the steering actions of an expert human driver along with the camera data that the human saw. |  |
| 4 | Train a computer to steer a car from camera data. In this case, there is no labeled data. The computer must learn how the steering affects the motion of the car. |  |
| 5 | Classify survey data into groups with similar responses. |  |