

# Module - 4: Machine Learning Techniques using R Part-2

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Hospital Care

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## Problem Statement:

### Hospital Dataset:

#### Question 1:

- a) Are there natural clusters among **hospitals** based on the **resource inputs** (Table 6) of the hospitals?
- b) Can you meaningfully label the clusters?
- c) How many clusters did you segregate the hospitals in to and why?

#### Question 2:

- a) Are any of the states too heterogeneous in terms of the kind of hospitals they have?
- b) I'll call a state heterogeneous if its hospitals belong to too many clusters as opposed most of the hospitals belonging to fewer clusters.
- c) While answering this question consider the clusters obtained in Part 1 above.
- d) Why do you think it would be important to know such information?

#### Question 3:

- a) Are there natural clusters among hospitals based on patient experience (Table 7) in hospitals?
- b) Can you meaningfully label the clusters?
- c) How many clusters did you segregate the hospitals in to and why?

#### Question 4:

- a) Do you see any relationship between clusters obtained in Part 1 with the ones obtained in Part 3 above?