# Machine Learning: Assignment #1

### May 12, 2018

1. Identify the type of data (numeral, ordinal, cardinal) in the following examples. Justify your answers:

   - Age of a person
   - Caste enumeration into OC, FC, BC, MBC, SC, ST
   - Family of flowers
   - Your salary The population of cars in a city
   - The number of idlies you eat every week.
   - Fuel consumed by your vehicle
   - Your monthly internet usage.

2. You have organized a family function and have invited a whole bunch of friends and family. The number of guests that are going to appear for the function is unknown. If you make a guess of that number, what would you call that task as? Regression or Classification? Justify.

3. What could be the mathematical model for the following scenarios?

   - Estimating the time taken for your bedroom to cool by 5 degrees, after turning the AC on.
   - Playing Sudoku Estimating the money required for your child's education.
   - Predicting the outcome of an IPL cricket match.
   - Estimating the number of students who would attend your class or party or gathering

4. How can you earn money and respect just by possessing a great "memorization & retrieval" skill along with the skill of recognizing similarity? Give creative answers.

5. Can memory, retrieval & similarity recognition along make someone a very intelligent person? What more might be needed? Does every so-called intelligent person possess great memory? Think through scenarios from your life and illustrate with examples.

6. In your opinion, what is intelligence? Justify.

7. Can a mathematically dumb person be an intelligent person in the eyes of the world? Justify.