

## Verge Ventures Data Science Problem Set

You are tasked with creating an algorithm to predict guest network experience; use one method to generate and test your algorithm. Feel free to use any packages or toolkits necessary.

The dataset is a network sampleset of data with 40,000 rows and 18 columns. Not all data points may be necessary to predict guest network experience.

To help us understand the process, please answer the questions below:

### Question 1:

- A) What functions/classes could you develop for this method that could be used in other projects?
  
- B) Describe how you would design the methodology. Write down the classes/method/function definitions that you will need. Include a structural diagram to support your design (paste diagram into word or load jpg into jupyter notebook). Please also include a brief description of what it does and how it will be used.

### Question 2:

Using your design as a template, design the method. Write a python code that steps through the process that you designed above. Comment your code where appropriate, and annotate what snippets may be used in other projects.

### Question 3:

Describe why you used the method you used and what metrics were not necessary in the final outcome. What other methods may be appropriate and why? Is there any other data you feel would be helpful in this project?