# Project Life Cycle

## Data Description and Approach

* Literature review for the problem. Who else has worked on the same/similar problem? Which approaches did they use?
* Store data into one of the relational or non-relational database management system.
* Use R, Python or any other programming language to connect to it.
* Initial data analysis: Identify and report the interesting patterns summary statistics, correlation between variables, frequency distribution.

## Experiment Setup

* Create a plan for your experiments. Identify the task, experience and the performance parameters.
* Identify candidate models for the problem from the related literature.
* Implement the models in a programming language of your choice.

## Initial Result Report

* Create a detailed report about your initial experiment results.
* Identify bottlenecks in your experiments and propose methods to address them by checking related literature.

## Final Result Report

* Calibrate your models if necessary.
* Create 2 reports:
  + **Report 1:** This report will be for a non-technical audiance. Report about your model without using technical jargon and create an executive summary in this report.
  + **Report 2:** This report will be for a technical audience. This report should contain all the details about the model, links to relevant source code snippets, your literature review and your detailed model output.

## Final Presentation (5 minutes)

* The presentation should contain ***exactly 5*** slides:
  + Slide 1: Problem definition
  + Slide 2: Literature overview
  + Slide 3: Proposed Solution
  + Slide 4: Results
  + Slide 5: Conclusion and Future Work

## References

1. http://www.cs.cmu.edu/~tom/pubs/MachineLearning.pdf