**Goal:**

The goal of our project is to answer the question “What kind of a house house can one afford given a set of inputs like income, expenses, current amount saved etc.” Our objective is to use optimization and simulation utilizing home and census data and find the best home possible in terms of price, geographic location etc.

**Overall Status:**

Here is a breakdown of the work that we have done so far:

1. **Influence diagram:**

We have a good grasp of what we are trying to achieve. As part of this exercise we created a requirements sheet and discussed all factors impacting the decision. We also went to identify which are inputs and which ones are optional parameters.

<https://www.lucidchart.com/invitations/accept/e80aa40f-72e9-43f5-924f-d02c09b34720>

1. **Data Status**

We have currently obtained data from Zillow, and US Census. Zillow provides us with home, county, and median price. US census provides us with average income of the neighbor hood information. We have also obtained Cost of living adjustment data for this.

1. **Spread Sheet Setup:**

We have begun this but we are at 20% mark right now. We will be working towards getting this to 100% mark soon.

1. **Resources:**

All our files including out spreadsheet is in github and available for review on demand

<https://github.com/taposh/decision_science/>