This project aims to address the complex problem found at the heart of real estate, which is the accurate appraisal and estimation of home prices. This was approached via a regressive model in order to both identify the key variables in calculating a home’s price and to develop a function that could be used to assess and predict housing prices with moderate accuracy. While maximizing accuracy was not a priority for the project, the developed model returned about 85% accuracy, alongside a clear list of variables that play the largest part in determining a home’s price.

2. Introduction (10 pts)  
Motivate and abstractly describe what you are trying to solve/achieve and your basic  
approach. In particular, try answer the following questions: What is the problem?  
Why is it important? What is your basic approach? Very briefly discuss how the work  
fits into related work in the area. Summarize the basic results and conclusions you will  
present.

3. Problem Definition (7 pts)  
Precisely define the problem(s) you are addressing and/or the questions you are ex-  
ploring. Elaborate on why these are interesting and important.

4. Models/Algorithms/Measures (10 pts)  
Describe briefly the model(s), measure(s), or algorithm(s) you are using (or developing)  
to investigate/address the problem. Try to give a concrete example, if appropriate.

5. Implementation/Analysis (23 pts)  
Here is where you give a detailed description of your work. Questions worth answering  
include: What dataset are you analyzing? What data are using to evaluate your  
method? What specific hypotheses are you testing? What experimental setup are you  
using? What external evaluation criteria are using to test your hypotheses? What  
other methods are you comparing against?  
1

6. Results and Discussion (22 pts)  
Present the quantitative results of your experiments; as you well know graphical data  
presentations such as plots and histograms are usually better than tables.  
Discuss your results. What do the results reveal? Is your hypothesis supported?  
What conclusions do the results support? What can be said about the strengths and  
weaknesses of your approach?

7. Related Work (7 pts)  
Discuss related work (if any) that address the same or similar problem. State how your  
problem/approach is different.

8. Conclusion (7 pts)  
Briefly summarize the important results and conclusions presented in the report. Men-  
tion how the work might be extended in the future.

9. Bibliography (7 pts)  
Be sure to include a standard, well-formatted, complete bibliography of work you have  
interacted with in your text or used in your work.