###### DATA SCIENCE PROJECT ON HOUSING PRICE

Final project report submitted to

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The University of Arkansas at Little Rock

in fulfillment of

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by

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# INTRODUCTION

Introduce your topic. Who could have an interest in the topic?

Give necessary background and context. How much is already known about the topics. What is missing from this current knowledge?

Outline your problem statement and the research questions. What new insights your investigation will contribute. Why do you believe this project is worth doing?

# LITERATURE REVIEW

It is important to demonstrate that you are familiar with other data science investigations on your topic. In this section, share how your project will fit into the other conversations about your topic by comparing and contrasting the main theories, methods, and debates. This is also an opportunity to examine the strengths and weaknesses of different approaches or to explain how you build on, challenge, or incorporate prior scholarship.

Useful resources: [Guidelines for Writing a Literature Review](https://www.scribbr.com/dissertation/literature-review/) and [Literature Review Steps](https://library.dsu.edu/c.php?g=22495&p=133184)

# Data Selection, Research Design and Methods

Following the literature review, restate your main objectives.

Describe your overall strategy for answering your research questions. (i.e., what data collection procedures, research approaches will you use)

Identify and describe your data sources (e.g., Is this a population or sample, where/when does this data come from, are there any data quality issues?)

# Analysis Work

# Use this section to present and interpret your analysis of the data.

# Discussion of Results

Use this section to explain how your results help answer each of your project objectives/questions.

# Conclusions and Closing Thoughts

Use this section to summarize your findings, any contributions or insights that you discovered, any lessons learned, and any thoughts on future work.

# Appendix

Include your Project Schedule to show a timeline of your project showing what you did at each stage of the project and how many hours spent.

Reference List - Include correct citations for every source you have used.

Any additional project documentation that you would like to include to showcase your work.

Additional Resources include [Structure of a Data Analysis Report.](http://www.stat.cmu.edu/~brian/701/notes/paper-structure.pdf) and [Data Analysis Write-Ups](https://jgscott.github.io/teaching/writeups/write_ups/)

Example of a Dissertation demonstrating these report features - <https://www.proquest.com/pqdtlocal1009983/docview/2902800999/1AEA2A01CF584BEAPQ/4?accountid=14482&sourcetype=Dissertations%20&%20Theses>

File or Link to your 3 Minute Thesis. You can use a one slide PowerPoint with audio, or you can record a selfie video. Remember to do your summary talk in 3 minutes or less. Longer talks will not be viewed. There are many good references on the web on how to do a good 3-minute summary (e.g., <https://pipettegazette.uthscsa.edu/2020/08/21/10-tips-for-3-minute-thesis-competition/>)

# References

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Quiz

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