

**Student Name:** Instructor: Date: **Attempt Number:** 

## **Data Science Online Data Science Bootcamp Module 4 Final Project Review**

## Technical Notebook **Project Specifications Exemplary (X-Factor) Notes Metric for success** Developing Accomplished For the zillow prices Business case not clearly Business case constructed Created original and dataset, constructed the articulated. Answered an clearly. And answered an meaningful work obvious question such as, 'What Created a unique business case around it obvious business question. Pick a novel interesting zip code increased the most in business case for the problem at the price?' zillow prices dataset. For П appropriate challenge example, analyzed the dataset from the point of level. view of sellers, buvers, a startup that would use this business model, etc. Import the data and Data not fully ready for later Explored different methods. Handled especially tricky analysis. 100% correctly issues. Explored preprocess the data that Preprocess data structured data. Handled different methods with includes cleaning, scrubbing, handling missing missing values. benchmarking. values, etc. Use data exploration, Inadequate visualizations (less Visualizations (at least 3) Created novel visualizations (at least 3 than 3 different ones), fit enough to understand data. distributions. Compared different kinds). inappropriate distributions (or no Explored enough to understand multiple distributions. Fit distributions outside of distributions, and discussed discussion of distributions). data. Fit the most appropriate Describe data the distributions as inadequate descriptive statistics distributions. Module./class. Found insights in data. pertaining to the given dataset. Calculated few statistics, models, and analyses. Fit at least one model. Attempted basic model fitting (or Correctly fit a single model. Compared multiple Summarize model impact forgot to model fit). Incorrect Correctly interpreted model models. Fit models Fit models/Hypothesis application. Misinterpreted results. Summarized model outside of class materials. and meaning. testing results. meaning & impact. Detailed numerical and visual analysis of models. Unintelligible, hard to follow. Present work done to a Engaging talk with insights & Live demo! Ran code and lessons. Explained code technical audience with Unclear, Incomplete. changed parameter Present to technical code, insights, summary, examples. values. audience future work, and even a live demo (for extra credit).

Write quality code	Code does what the analysis says it does. It is clear, concise, easy to read and understand.	Code is incomplete. Code NOT in GitHub. Code does NOT work. Code is hard to read. Code does not have README. Commit messages are not helpful.		Repeated some analyses covered in sections/class. Showed some creativity.		Code has comments and tests. Professional level/pep 8. GitHub repo is public (if appropriate).			
Conclusion	Notebook contains a conclusion with business recommendations that are driven by analysis.	No conclusion present.		Conclusion present but only states findings and contains 1 or 2 relevant business recommendations.		Conclusion is present and contains at least 3 recommendations that are business relevant.			
X - factor: Did something out of the box	Went above and beyond to research some additional topic, concept, Python package(s).	Routine project. Repeated analysis covered in class/sections of the module.		Showed creativity.		Ground breaking.			
Non-Technical Presentation									
Project Specifications	Metric for success	Developing		Accomplished		Exemplary (X-Factor)		Notes	
Non Technical	Presentation contains great data science that is delivered using non technical language.	Presentation uses technical terms without succinct explanations more than 3 times.		Presentation uses technical terms without succinct explanations once or twice.		Presentation does not use technical terms or provides succinct explanations when using them.			
Slide Quality	Slides are light on text, engaging and tell a story.	Slides are very text heavy or highly unorganized and all over the place.		Slides are organized and tell a story, but contain too much text at times, especially when a visualization will suffice.		Slides are organized, contain visualizations that relay information and slides tell a story.			
Duration	Your presentation should be between 5 and 8 minutes.	Presentation is over 10 minutes or under 3 minutes.		Presentation is over 8 minutes or under 5 minutes.		Presentation is between 5 and 8 minutes.			
Test Results	Hypothesis test results are shown and made relevant to the business, driving the recommendations from the project.	No tests are shown or tests shown do not relate to business.		Test results are shown and made clear to business case.		Test results are shown, made relevant to business case and also highlight deeper insights into the business.			
Visualizations	Slides contain visualizations that take the place of text and give the viewer insight.	Slides do not contain visualizations or the visualizations present are not relevant to the story.		Slides contain visualizations that are relevant to the story but hard to interpret.		Slides contain visualizations that are relevant and easy to understand.			
Recommendations	A great presentation contains business recommendations and steps moving forward.	No recommendations are made		At least 3 recommendations are made, but are not driven by data analysis or model.		At least 3 recommendations are made and are driven by analysis and model.			

Future Work	A data scientist will never have enough time to explore all aspects of dataset. If you had more time, what other aspects of the dataset would you explore?	No slide on Future work.	Future work slide content not well defined and/or articulated.	Future work clearly articulated, explored, and its potential business impact (s) described.	
Thank You Slide	Thank your audience for their time, it's a great practice.	Thank You Slide is not present.	Thank You Slide is present.	Thank You Slide is present. Appendix includes additional work.	

## **Qualitative Assessment**

1. Problem Statement how well was it defined for this project

- 2. Things you did well:
- 3. Things to work on/ consider :
- 4. Action items: