

## Data Science Online Data Science Bootcamp

### Module 1 Final Project Review

#### Technical Notebook

Project Specifications	Metric for success	Developing		Accomplished		Exemplary (X-Factor)		Notes
README.md	Student has a clear README, highlighting important aspects of the project.	Student does not have a readme, or has a readme that is just a copy of the notebook.	<input type="checkbox"/>	Student has a readme with a clear and well organized outline, conclusion and recommendation section. Visualizations are present.	<input type="checkbox"/>	Student has a readme with a clear and well organized outline, conclusion and recommendation section. Visualizations are present. Language and markdowns lend themselves to succinctness.	<input checked="" type="checkbox"/>	
Pick a novel interesting problem at the appropriate challenge level.	Student centered their data around a business case and scraped the appropriate data.	Business case not clearly articulated. Answered an obvious business question.	<input type="checkbox"/>	Business case constructed clearly. Student scraped relevant data.	<input checked="" type="checkbox"/>	Students scraped relevant data in a reproducible way, using best practices for beautifulsoup.	<input type="checkbox"/>	
Preprocess data	Import the data and preprocess the data that includes cleaning, scrubbing, handling missing values, etc.	Data not fully ready for later analysis. 100% correctly structured data. Handled missing values.	<input type="checkbox"/>	Explored different methods.	<input checked="" type="checkbox"/>	Handled especially tricky issues. Explored different methods with benchmarking.	<input type="checkbox"/>	
Describe data	Use data exploration, visualizations (at least 5 different kinds), distributions, and discussed the distributions as pertaining to the given dataset. Calculated few statistics, models, and analyses.	Inadequate visualizations ( less than 5 different ones), did not highlight important statistics.	<input type="checkbox"/>	Visualizations (at least 5) enough to understand data and convey information to the user.	<input checked="" type="checkbox"/>	Created novel distributions. Created visualizations on statistics, distributions and relationships within the data.	<input type="checkbox"/>	
Present to technical audience	Present work done to a technical audience with code, insights, summary, future work, and even a live demo (for extra credit).	Unintelligible, hard to follow. Unclear. Incomplete.	<input type="checkbox"/>	Engaging talk with insights & lessons. Explained code examples.	<input checked="" type="checkbox"/>	Live demo! Ran code and changed parameter values.	<input type="checkbox"/>	

<b>Write quality code</b>	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.	<input type="checkbox"/>	Repeated some analyses covered in sections/class. Showed some creativity.	<input checked="" type="checkbox"/>	Code has comments and tests. Professional level/ pep 8. GitHub repo is public (if appropriate).	<input type="checkbox"/>	
<b>Conclusion</b>	Notebook contains a conclusion with business recommendations that are driven by analysis.	No conclusion present.	<input type="checkbox"/>	Conclusion present but only states findings and contains 1 or 2 relevant business recommendations.	<input type="checkbox"/>	Conclusion is present and contains at least 3 recommendations that are business relevant.	<input checked="" type="checkbox"/>	
<b>X - factor: Did something out of the box</b>	Went above and beyond to research some additional topic, concept, Python package(s).	Routine project. Repeated analysis covered in class/sections of the module.	<input type="checkbox"/>	Showed creativity.	<input checked="" type="checkbox"/>	Ground breaking.	<input type="checkbox"/>	

## Non-Technical Presentation

Project Specifications	Metric for success	Developing		Accomplished		Exemplary (X-Factor)		Notes
<b>Present to non-technical audience</b>	Present work done to a non-technical (business focused) audience with problem statement, business value, methodology explained simply, business recommendations, summary, and future work.	Unintelligible, hard to follow. Unclear. Incomplete. Slides are too verbose, slide notes non existent.	<input type="checkbox"/>	Engaging talk with insights & lessons. Explained methodology. Slides have images, less text, slide notes present on slide that mirror the script of the presenter. One slide for each of the following - Problem statement, business value, methodology, business recommendations (each recommendation on a separate slide), future work/next steps.	<input checked="" type="checkbox"/>	Additional slides like findings, or use of engaging images, graphics, material showing expertise in communicating to business stakeholders.	<input type="checkbox"/>	
<b>Slide Quality</b>	Slides are light on text, engaging and tell a story.	Slides are very text heavy or highly unorganized and all over the place.	<input type="checkbox"/>	Slides are organized and tell a story, but contain too much text at times, especially when a visualization will suffice.	<input checked="" type="checkbox"/>	Slides are organized, contain visualizations that relay information and slides tell a story.	<input type="checkbox"/>	
<b>Duration</b>	Your presentation should be between 5 and 8 minutes.	Presentation is over 10 minutes or under 3 minutes.	<input type="checkbox"/>	Presentation is over 8 minutes or under 5 minutes.	<input type="checkbox"/>	Presentation is between 5 and 8 minutes.	<input checked="" type="checkbox"/>	
<b>Non Technical</b>	Presentation contains great data science that is delivered using non technical language.	Presentation uses technical terms without succinct explanations more than 3 times.	<input type="checkbox"/>	Presentation uses technical terms without succinct explanations once or twice.	<input checked="" type="checkbox"/>	Presentation does not use technical terms or provides succinct explanations when using them.	<input type="checkbox"/>	
<b>Test Results</b>	Visualizations are shown in presentation.	No tests are shown or tests shown do not relate to business.	<input type="checkbox"/>	Test results are shown and made clear to business case.	<input checked="" type="checkbox"/>	Test results are shown, made relevant to business case and also highlight deeper insights into the business.	<input type="checkbox"/>	

<b>Visualizations</b>	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.	<input type="checkbox"/>	Slides contain visualizations that are relevant to the story but hard to interpret.	<input type="checkbox"/>	Slides contain visualizations that are relevant and easy to understand.	<input type="checkbox"/>	
<b>Recommendations</b>	A great presentation contains business recommendations and steps moving forward.	No recommendations are made	<input type="checkbox"/>	At least 3 recommendations are made, but are not driven by data analysis or model.	<input type="checkbox"/>	At least 3 recommendations are made and are driven by analysis and model.	<input type="checkbox"/>	
<b>Future Work</b>	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.	<input type="checkbox"/>	Future work slide content not well defined and/or articulated.	<input type="checkbox"/>	Future work clearly articulated, explored, and its potential business impact (s) described.	<input type="checkbox"/>	
<b>Thank You Slide</b>	Thank your audience for their time, it's a great practice.	Thank You Slide is not present.	<input type="checkbox"/>	Thank You Slide is present.	<input type="checkbox"/>	Thank You Slide is present. Appendix includes additional work.	<input type="checkbox"/>	

## 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: