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Data Science Online Data Science Bootcamp Module 2 Final Project Review

Technical Notebook **Project Specifications Metric for success** Developing Accomplished **Exemplary (X-Factor) Notes** Student does not have a Student has a readme with a Student has a readme **✓** Student has a clear README.md README, highlighting readme, or has a readme that is clear and well organized outline, with a clear and well important aspects of the just a copy of the notebook. conclusion and organized outline, project. recommendation section. conclusion and Visualizations are present. recommendation section. Visualizations are present. Language and markdowns lend themselves to succinctness. For the House prices Business case not clearly Business case constructed Created original and dataset, constructed the articulated. Answered an clearly. And answered an meaningful work -Created a unique business case around it obvious business question. obvious question. like clearly Pick a novel interesting well. articulated the business business case for the problem at the stakeholder requirements that House prices dataset, For **✓** appropriate challenge the project aims to accomplish. example, analyzed the Combine questions in unique dataset from the point of level. ways like how does zipcode view of sellers, buyers, a impact house prices? startup that would use this business model, etc. Import the data and Data not fully ready for later Explored different methods. Handled especially tricky preprocess the data that analysis, 100% correctly issues. Explored **~** 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 enough to understand data. visualizations (at least 3 than 3 different ones), fit 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 models/Hypothesis testing	Fit at least one model. Summarize model impact and meaning.	Attempted basic model fitting (or forgot to model fit). Incorrect application. Misinterpreted results.	Correctly fit a single model. Correctly interpreted model results. Summarized model meaning & impact.		Compared multiple models. Fit models outside of class materials. Detailed numerical and visual analysis of models.	~	
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.	Engaging talk with insights & lessons. Explained code examples.		Live demo! Ran code and changed parameter values.	~	
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.	Y	
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.		

Project Specifications	Metric for success	Developing	Accomplished		Exemplary (X-Factor)	Notes
Present to non- technical audience	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.	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.		Additional slides like findings, or use of engaging images, graphics, material showing expertise in communicating to business stakeholders.	
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.	

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.		Lots of technical terms used without a lot of explanation
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

a great readme!

2. Things you did well: modelling and feature engineering was really great!

3. Things to work on/ consider :

consider: the presentation needs to be a lot more non-technical

4. Action items: none for now!