

Project Rubric							
Project Specifications	Metric for success	Developing - 0		Accomplished - 1		Exemplary - 2	Notes
README.md	Student has a clear readme, highlighting important aspects of the project.	Student does not have a readme, or has one that is just a copy of the notebook.	<input type="checkbox"/>	Student has a readme that is clear and well organized. It outlines their data (sources, anything quirky or hard to understand, etc.), their process, and their recommendations based on results.	<input type="checkbox"/>	Student has a readme with a clear and well organized outlines, conclusion, and recommendation section. Visualizations are present. Language and markdown lend themselves to succinctness.	<input type="checkbox"/>
Data Collection	Chosen dataset was relevant to classification.	Dataset was not relevant to classification.	<input type="checkbox"/>	Dataset was simple (such as a Kaggle dataset not supplemented with any other data), but relevant to classification. At least 1000 rows and at least 10 features.	<input type="checkbox"/>	Dataset was originally constructed (web scraping/api calls made) and relevant to classification. At least 1000 rows and at least 10 features.	<input type="checkbox"/>
Exploratory Data Analysis	Student explores data using visualizations and descriptive statistics.	Inadequate visualizations and descriptive statistics, OR, did not interpret these appropriately.	<input type="checkbox"/>	At least 2 well-constructed visualizations presented along with descriptive statistics; these are interpreted correctly. Student(s) can speak knowledgeably about their data.	<input type="checkbox"/>	Student created at least 2 well-constructed visualizations, discussed descriptive statistics, and is able to interpret and compare or link them together to give a cohesive introduction to the data.	<input type="checkbox"/>
Preprocessing/Feature Engineering	Student processed data and created features to increase the predictive capability of the models.	Very little to no preprocessing, no feature engineering	<input type="checkbox"/>	Student preprocessed data and developed new features.	<input type="checkbox"/>	Student preprocessed data and developed domain-motivated features based on their EDA that contributed positively to their model's performance.	<input type="checkbox"/>
Model Fitting	Student fit at least two models - a baseline and a refined model. Summarize model impact and meaning.	Attempted basic model fitting (or forgot to model fit). Incorrect application. Misinterpreted results.	<input type="checkbox"/>	Correctly fit a baseline and a single model. Correctly interpreted model results. Summarized model meaning & impact.	<input type="checkbox"/>	Compared multiple models, including a discussion of their iterative process and pros/cons of different models. Detailed numerical and visual analysis of models.	<input type="checkbox"/>
Model Evaluation	Student evaluated models using appropriate methods and interpreted the results in the context of their data.	Inappropriate methods selected, or results misinterpreted.	<input type="checkbox"/>	Student evaluated their models using at least one metric and interpreted results correctly.	<input type="checkbox"/>	Student evaluated their models using more than 1 metric, and provided reasoning as to why they prioritized certain metrics. Student interpreted results correctly.	<input type="checkbox"/>
Business/Social Case & Conclusions	Student makes a business/social recommendation driven by data analysis.	No clear business/social case or no conclusion is present.	<input type="checkbox"/>	Appropriately challenging business/social case with conclusion present and includes a business recommendation motivated by data analysis.	<input type="checkbox"/>	Appropriately challenging business/social case with conclusion present, includes a data-driven business recommendation, and future steps for further analysis/recommendations.	<input type="checkbox"/>
Quality of Code, Github	Student creates a notebook (or several) that is well documented, clean, easy to read and understand, and has a neat, organized GitHub repo.	Code is not in Github, or repo is used improperly (only one or two commits to add completed notebook). Code may not run, or is hard to read, or is not commented.	<input type="checkbox"/>	Code is on Github with frequent commits (and relevant commit messages). Code is clean, organized, and well commented.	<input type="checkbox"/>	Code is on Github with frequent commits (and relevant commit messages). Code is clean, organized, and well commented. Markdown cells add clarity and outline the process. Functions are utilized where appropriate to increase readability and reduce repetition.	<input type="checkbox"/>
Presentation	Student delivers a clear, organized, well-thought out presentation that can be understood by a non-technical audience.	Slides are unclear, disorganized. Visuals are not legible to audience. Slides may be too text-heavy. Student goes over time.	<input type="checkbox"/>	Student delivers a presentation that is mostly organized and clear in the allotted time. Overall, presentation is understood by audience.	<input type="checkbox"/>	Student is engaging and presents a well-organized, clear, legible presentation in the allotted time. Visuals add to the presentation and are well explained. The presentation tells a cohesive story.	<input type="checkbox"/>
Score (1-5)	1		0		0		0