

## Machine Learning Project Rubric

Criteria	Exceptional	Proficient	Basic	Limited
<i>Completeness and Detail of Feature Descriptions</i>	The feature descriptions are comprehensive, providing a clear understanding of each field's data type, and statistical distribution of values. The descriptions include statistical summaries, visualizations, and meaningful explanations.	The feature descriptions are mostly complete, offering a good understanding of the data type and distribution of values. Some minor details or explanations may be lacking.	The feature descriptions lack depth or completeness, making it difficult to grasp the data's characteristics. Key information about data type and distribution may be missing.	feature descriptions are severely lacking or absent, hindering a proper understanding of the data. Data type and distribution of values are not addressed adequately.
<i>Machine Learning Experiments</i>	Comprehensive experimentation with multiple ML algorithms. Different hyper-parameters have been tested for each model. Experiments have been conducted with multiple random splits of the dataset.	The extend of the ML experimentation is generally satisfying. Though testing hyper-parameter and random starting conditions are incomplete.	Experimentation lacks testing with different algorithms and hyper-parameters. Performance analysis lacks detail.	Significant steps in the data preparation are missing. Model training is incomplete. Performance analysis is incomplete.
<i>Explanation of ML Performance Evaluation to Fictional Business Case</i>	The explanation of the ML performance evaluation and choice of model is highly aligned with the business case, addressing key objectives, and providing actionable insights.	The explanation of the ML performance evaluation aligns reasonably well with the business case. Though, it's missing consideration to the use-case.	The explanation of the ML performance has limited alignment with the business case.	The explanation of the ML performance is not aligned with the business case, lacking relevance to the stated objectives or real-world applications.
<i>Completeness of Source Code</i>	The source code is exceptionally well-documented, organized, and follows best practices. It includes comments, clear variable naming, and reproducible steps for data exploration.	The source code is well-documented and organized, with minor room for improvement in terms of clarity or adherence to best practices.	The source code lacks adequate documentation or organization, making it challenging for others to understand and replicate the exploration.	The source code is poorly documented, disorganized, or incomplete, hindering its reproducibility and understanding.
<i>PowerPoint Presentation and Delivery</i>	The PowerPoint presentation is exceptional in design and delivery. Slides are cohesive with a consistent design, using appropriate fonts, colors, and objects.	The PowerPoint presentation is well-designed and delivered. Slides exhibit a good degree of cohesion in terms of design elements.	The PowerPoint presentation lacks some cohesiveness in design elements, making it less visually appealing.	The PowerPoint presentation is poorly designed, lacking consistency in fonts, colors, and objects.