**Required Assignment 11.1: What Drives the Price of a Car?**

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| **Criteria** | **Ratings** | **Pts** |
| This criterion is linked to a Learning OutcomeProject organization:  · A Word document with a summary of findings and a link to the notebook – **Added on 12/2/2024** · Jupyter notebook with headings and text appropriately formatted – **2 Jupyter notebooks provided (prompt\_II.ipynb and “Module 11 Workbook.ipynb”)** · No unnecessary files · Directories and files have appropriate names and locations. | |  |  | | --- | --- | | **5 pts**  **Excellent**  Your submission includes all listed components. | **0 pts**  **Criterion not met**  Your submission includes a few to none of the listed components. | | 5 pts |
| This criterion is linked to a Learning OutcomeSyntax and code quality:  · Libraries are imported and aliased correctly. · Code does not contain errors. · No long strings of code output · Demonstrates competency with pandas · Demonstrates competency with seaborn · Comments are used appropriately to explain code. · Variables are sensible. | |  |  | | --- | --- | | **5 pts**  **Excellent**  Your submission includes all listed components. | **0 pts**  **Criterion not met**  Your submission includes a few to none of the listed components. | | 5 pts |
| This criterion is linked to a Learning OutcomeVisualizations:  · Appropriate plots for categorical and continuous variables are utilized. · Plots contain readable labels. · Plots contain descriptive titles. · Axes are legible. · Subplots are used when appropriate. · Plots are scaled appropriately for readability. | |  |  | | --- | --- | | **5 pts**  **Excellent**  Your submission includes all listed components. | **0 pts**  **Criterion not met**  Your submission includes a few to none of the listed components. | | 5 pts |
| This criterion is linked to a Learning OutcomeModeling:  · Use of multiple regression models **(total 10 different models used)** · Cross-validation of models **(Models #9 and #10 have cross validation)** · Grid search hyperparameters **(Model #10 uses alpha)** · Appropriate interpretation of coefficients in models · Appropriate interpretation of evaluation metric · Clear identification of evaluation metric · Clear rationale for use of given evaluation metric | |  |  | | --- | --- | | **5 pts**  **Excellent**  Your submission includes all listed components. | **0 pts**  **Criterion not met**  Your submission includes a few to none of the listed components. | | 5 pts |
| This criterion is linked to a Learning OutcomeFindings:  · Clearly stated business understanding of the problem **(Provided in prompt\_II.ipynb)** · Clean and organized notebook with data cleaning – **Data cleaning details provided in prompt\_II.ipynb** · Correct and concise interpretation of descriptive and inferential statistics · Clearly stated findings in their own section with actionable items highlighted in an appropriate language for a nontechnical audience · Next steps and recommendations | |  |  | | --- | --- | | **5 pts**  **Excellent**  Your submission includes all listed components. | **0 pts**  **Criterion not met**  Your submission includes a few to none of the listed components. | | 5 pts |
| Total Points: 25 | | |