Guided Capstone Grading Rubric

Guided Capstone Step 4: Pre-processing and model development

Learning Objective

- Gain a conceptual understanding of important topics such as train/test splits and metrics.
- Understand the importance of gaining an initial baseline performance from a non-ML approach (e.g. simply assuming/guessing the mean).
- Get an understanding of how to vary components in the pipeline easily.
- Learn how to explore and assess different model hyperparameters via cross-validation (as opposed to on a test set) and learn about associated functions.
- Learn how to serialize (pickle) and save a (model) object to file.

Criteria	Meets Expectations
Completion	❏ Every step in the Jupyter notebook is completed and functions correctly.
Process and understanding	❏ The submission shows that students can perform a workflow from imputing missing values, scaling data in the context of training, to assessing model performance. ❏ The submission demonstrates that students can implement this workflow as a single pipeline object that can be trained and assessed just as a simple model. ❏ The submission demonstrates that students can compare model performances and select the best model.
Presentation	❏ The appropriate GitHub repository is created and the completed notebook pushed to it. ❏ A link to the specific step 4 notebook is submitted.